

Selected Cases: (continued)

1982 The MGM Fire
 1981 Asbestos Litigation (Johns - Manville)
 Pick-N-Pay Supermarket Anti-Trust Case (Cleveland & Lorain)
 1980 The Beverly Hills Supper Club Fire
 1979 The Sinking of The Edmund Fitzgerald
 1975 The Kent State Cases
 1973 The Thalidomide Cases

Other Professional Activities:

Reviewer for the Review of Social Economy, 1971 – 1981

Entrepreneurial Experience

1973- present I am a principal in Burke Rosen and Associates. Harvey Rosen and I started this economic consulting firm specializing in litigation expert valuations and courtroom testimony. We have provided evidence in thousands of different cases over the past 45 years drawing upon or experience and academic training as economists and careers as classroom educators.

1975- 1988- Harvey Rosen and I developed several new businesses. We developed, built and operated a chain of racquetball clubs, "Harvey's Wallbanger" in Cleveland, Elyria and Columbus Ohio. We started and Operated Public Data Systems which provided statistical analysis, polling data, and mailing services to political candidates. We developed software in the pre-personal computer era to provide direct mail services to political candidates. We were the first in Ohio to computerize all county Boards of Elections in Ohio that were on computer at that time. We also created computer tapes for other counties in Ohio not on computer from voter poll books. The voter lists were married to telephone numbers throughout the State. Our tapes were also sold to and used by the U.S. Senate office of Senator Metzenbaum, to direct mail his constituents in the State of Ohio. We started "Voicebank" a company that provided voicemail services to persons and businesses prior to its widespread availability by phone company providers.

United States District Court
 The Northern District of Ohio Eastern Division

Plaintiffs,

County of Lake, Ohio
 Case No. 18-op-45032

and

County of Trumbull, Ohio
 Case No. 18-op-45079

vs.

Purdue Pharma, L.P. et al,

Defendants.

MDL No. 2804
 Case No. 1:17-md-2804
 Judge Dan Aaron Polster

Expert Report of Harvey S. Rosen, Ph.D. & John F. Burke, Ph.D.
 Burke Rosen & Associates
 Revised April 22, 2022

Summary Table 1:

Lake County Summary by Category		
	Total Cost	Present Value
Category 1: Prevention - Reducing Opioid Oversupply and Improving Safe Opioid Use		
1A. Health Professional Education	\$3,873,072	\$3,399,097
1B. Patient and Public Education	\$1,141,271	\$1,007,289
1C. Safe Storage and Drug Disposal	\$77,826	\$69,981
1D. Community Prevention and Resiliency	\$4,710,827	\$4,288,703
1E. Harm Reduction	\$12,220,271	\$10,665,451
1F. Surveillance, Evaluation, and Leadership	\$6,532,784	\$5,726,686
	\$28,556,051	\$25,157,207
Category 2: Treatment - Supporting Individuals Affected by the Epidemic		
2A. Connecting Individuals to Care	\$18,054,195	\$15,836,613
2B. Treating Opioid Use Disorder	\$975,150,592	\$836,046,793
2C. Managing Complications Attributable to the Epidemic	\$71,969,454	\$66,000,725
2D. Workforce Expansion and Resiliency	\$27,938,928	\$24,654,063
2E. Distributing Naloxone and Providing Training	\$6,818,690	\$5,967,630
	\$1,099,931,858	\$948,505,823
Category 3: Recovery - Enhancing Public Safety and Reintegration		
3A. Public Safety	\$5,643,598	\$4,991,725
3B. Criminal Justice System	\$58,511,302	\$49,635,838
3C. Vocational Training and Job Placement	\$51,515,937	\$45,540,454
3D. Mental Health Counseling and Grief Support	\$6,686,855	\$5,872,306
	\$122,357,691	\$106,040,323
Category 4: Addressing Needs of Special Populations		
4A. Pregnant Women, New Mothers, and Infants	\$37,047,838	\$32,380,027
4B. Adolescents and Young Adults	\$15,305,113	\$13,768,375
4C. Families and Children	\$125,737,321	\$113,118,511
4D. Homeless and Housing Insecure Individuals	\$4,325,199	\$3,868,112
	\$182,415,470	\$163,135,025
Total Abatement Cost	\$1,433,261,070	\$1,242,838,379

Source: Volume I Exhibits 1-1, 1-2, 1-3 and 1-4

	USAir 405 Crash
	USAir Beckley, West Virginia Crash
1992	The BASF Explosion
	USAir Los Angeles Crash
1990	Stark County Toxic Landfill Case
	Miamisburg Train Derailment
1989	The Cincinnati Pipefitters Case
	The WD40 Cases
	The Lockerbie, Scotland Case - Pan Am Flight 103
1988	The DuPont Plaza Fire in San Juan, Puerto Rico
1987	The LTV Bankruptcy-Oglebay Norton Case
	The May Company-Supermarket Anti-Trust Case
	The Home State Savings and Loan Company Case
	The Fernald Nuclear Plant Case
1986	The Gander Cases - Arrow Air Disaster
1985	Air Canada Air Disaster
1984	The Dalkon Shield Case
	The Pan American Crash Disaster
	The Bendectin Case
	The Bhopal India Case
1983	The Thurman Munson Plane Crash
	The Hyatt Kansas City Balcony Collapse
	The Air Florida Plane Crash in Washington, D.C.

2008 Mound SuperFund Real Estate Litigation
Korey Stringer vs Minnesota Vikings Leadscope vs American Chemical Socie

2007 P&G Utah
Comair Lexington KY Aircrash
WR Grace Pension Fund Employee Litigation
Tamaraz- Welding Rod Fumes MDL Litigation
Rawls- West Virginia Water Litigation
Penn Central Railroad Litigation

2006 Toshiba Notebook Cover Litigation Los Angeles
Hatano, Makiko- Grand Canyon Helicopter Crash
Interstate Diesel- Bosch

2005 STRS Medco Health Solutions Litigation
Country Wide Home Loans Mortgage Release Litigation

2004 World Trade Center/Victims Compensation Fund
Louisiana Smokers Litigation- Smoke Cessation Program
UPS EV Set

2003 Worldwide Basketball/NCAA Litigation
Lucent Ponder Litigation
P&G/Amway Litigation Michigan Case
Thomas Kinkade Media Arts Trademark Case
International Paper Lamson Sessions Contract Case
Dayton Power & Light Shareholder Litigation

2002 Kodak Employment Case
State Alarm Litigation

2001 Sulzer Medice- Hip Implant Litigation

2000 American Home Products Phen-Fen
Louisiana Smokers Litigation- Scott

1999 Bogalusa Chemical Release- Gaylord
Phen-Fen Interneuron Corporation

1998 Ohio Valley Fireworks Litigation
Firestone Insurance Claim
Telectronics Corporation- Pacemaker J lead litigation

1997 The Pension Benefit Guaranty Corporation (Cincinnati)
Acromed Orthopedic Bone Screw
Tobacco Litigation Testimony

1996 The Protection Group (Toledo)
Queen Village Pharmacy (Philadelphia)

1994 Pfizer Heart Valve Foreign Fracture Panel,
Ernst & Young Age Discrimination Case

1993 Eagle Pitcher Bankruptcy
Pfizer Heart Valve, US formula
Mentor Corporation Breast Implant Litigation

Summary Table 2:

Lake County Summary by Year			
Year	Total Cost	Present Value	
2021	\$ 67,479,714	\$	67,479,714
2022	\$ 70,904,293	\$	70,671,078
2023	\$ 75,427,659	\$	74,932,289
2024	\$ 79,753,686	\$	78,969,307
2025	\$ 84,190,642	\$	83,088,434
2026	\$ 84,192,186	\$	78,615,893
2027	\$ 88,523,252	\$	81,534,918
2028	\$ 92,951,724	\$	84,448,403
2029	\$ 97,577,638	\$	87,444,401
2030	\$ 102,406,185	\$	90,522,305
2031	\$ 107,331,997	\$	85,001,470
2032	\$ 112,466,918	\$	87,014,523
2033	\$ 117,818,985	\$	89,053,696
2034	\$ 123,275,243	\$	91,029,522
2035	\$ 128,960,950	\$	93,032,425
Total Abatement Cost		\$ 1,433,261,070	\$1,242,838,379

Sources: Volume I Exhibits 1-1, 1-2, 1-3, 1-4 and 1-8.

Summary Table 3:

Trumbull County Summary by Category		
	Total Cost	Present Value
Category 1: Prevention - Reducing Opioid Oversupply and Improving Safe Opioid Use		
1A. Health Professional Education	\$1,849,985	\$1,627,191
1B. Patient and Public Education	\$968,185	\$854,523
1C. Safe Storage and Drug Disposal	\$64,226	\$57,753
1D. Community Prevention and Resiliency	\$3,817,525	\$3,481,434
1E. Harm Reduction	\$12,400,610	\$10,821,698
1F. Surveillance, Evaluation, and Leadership	\$5,358,451	\$4,697,305
	\$24,458,983	\$21,539,904
Category 2: Treatment - Supporting Individuals Affected by the Epidemic		
2A. Connecting Individuals to Care	\$24,674,096	\$21,642,990
2B. Treating Opioid Use Disorder	\$1,242,016,106	\$1,064,833,832
2C. Managing Complications Attributable to the Epidemic	\$129,961,307	\$119,122,597
2D. Workforce Expansion and Resiliency	\$19,847,534	\$17,548,402
2E. Distributing Naloxone and Providing Training	\$8,537,389	\$7,449,582
	\$1,425,036,431	\$1,230,597,403
Category 3: Recovery - Enhancing Public Safety and Reintegration		
3A. Public Safety	\$5,378,545	\$4,758,386
3B. Criminal Justice System	\$53,210,439	\$45,223,289
3C. Vocational Training and Job Placement	\$65,997,011	\$58,423,877
3D. Mental Health Counseling and Grief Support	\$5,149,395	\$4,522,738
	\$129,735,390	\$112,928,291
Category 4: Addressing Needs of Special Populations		
4A. Pregnant Women, New Mothers, and Infants	\$72,105,688	\$63,022,470
4B. Adolescents and Young Adults	\$18,173,645	\$16,340,235
4C. Families and Children	\$159,541,692	\$143,520,078
4D. Homeless and Housing Insecure Individuals	\$4,650,751	\$4,159,260
	\$254,471,776	\$227,042,043
Total Abatement Cost	\$1,833,702,580	\$1,592,107,640

Source: Volume II- Exhibits 1-1, 1-2, 1-3 and 1-4

Selected Reports: (continued)

- "Report on Age Discrimination of the American Motors Corporation," prepared for: The Detroit Office of the EEOC, with H.S.R.
- 1981 "The Effect of Price Fixing in the Food Industry in Cleveland, Ohio - The Pick-N-Pay Case," prepared for: The Ohio Public Interest Campaign, et.al., with H.S.R.
- 1980 "Report of Salaries, Fringe Benefits and Earnings of Ohio Prosecuting Attorneys," prepared for: The Ohio Prosecuting Attorney Association, Columbus, Ohio, with H.S.R.
- "Report on Race Discrimination in Minneapolis, Minnesota: The Humphrey Dome Project," prepared for: The NAACP, with H.S.R.
- "Attitudinal Survey of the Cleveland Clinic Foundation," prepared for: The Cleveland Clinic Foundation, with H.S.R.
- "Report of the City of Dayton, Ohio, on Wages, Fringe Benefits and Working Conditions for City Fire Fighters," prepared for: The City of Dayton, Ohio, with H.S.R.
- 1979 "Report on Wage and Hour Discrimination at the Youngstown Sheet and Tube Company," prepared for: U.S. Department of Labor, with H.S.R.
- "Economic Impact Study of Buffalo Grove, Illinois," submitted to: The Village of Buffalo Grove, Illinois, with H.S.R.
- 1978 "Report on Hiring Practices in the Operating Engineers Union," prepared for: Professor Alan Rubin, Cleveland State University, with H.S.R.
- 1978 "The Capacity of Cleveland Area Business to Support Charitable Contributions," prepared for: The United Torch Agency, with H.S.R.
- "Ascertainment Study: WUAB Television," submitted to: The Federal Communication Commission, with H.S.R.

Selected Cases:

- 2018 Spaulding vs The Republic of Iran, 1983 Bombing of the Marine Barracks in Lebanon.
- 2016 Thatcher vs Dupont Chemical Asbestos Subrogation Litigation
BP Utah UST Litigation
BP South Dakota UST Litigation BP South Carolina UST Litigation Indian Hill EVSD Litigation
- 2015 Goode vs American Water WVA Litigation
Otero vs Cook County Prisoner Litigation
- 2014 Country Wide (BOA) Mortgage Backed Security Litigation
Morgan Stanley Mortgage Backed Security Litigation
Goldman Sachs Mortgage Backed Security Litigation
Valero- UST Litigation
Duke Energy Utility Rebate Litigation
- 2013 Dante Whitner Litigation
Cincinnati Pressman vs Enquirer Litigation
Credit Suisse Mortgage Backed Security Litigation
Conoco Phillips UST Litigation- Colorado
- 2012 Uranie of France vs Achelor Mitral Litigation
- 2010 Westgate Ford Truck Litigation

Exhibit 2-10 of 16 Burke

Selected Reports: (continued)

- "The Value of an Auto Franchise: The Case of Jaguar"
- 1987 Report on the Ice Cream, Frozen Novelty Market - The Popsicle Anti-Trust Case," prepared for Michael T. McMenamin, with H.S.R.
- "Report and Analysis of Cleveland Policeman Salaries," prepared for The Cleveland Police Patrolman's Association, with H.S.R.
- 1986 "Report on Age Discrimination at The Martin-Marietta Company, St. Croix, The Virgin Islands," prepared for John Coon, with H.S.R.
- "Economist Report on Anti-Competitive Activities in The Bradford, Pennsylvania Market Place (the newspaper market)," prepared for Andrew Conner with H.S.R.
- "Report on the Earning Capacity of a Manager at Owen-Corning Fiberglass," prepared for Melvin Belli, with H.S.R.
- "The Valuation of Stock in a Closely Held Family Food Chain: the Heinen Case," prepared for James Wilsman, with H.S.R.
- 1984 "Dependents Replacement Service Loss," prepared for: The Attorney General, State of Ohio, with H.S.R.
- "Report on Life-Time Earnings of a Convicted Felon," prepared for: The Court of Claims, State of Ohio, with H.S.R.
- "Report of Sex Discrimination at Proctor and Gamble," prepared for: The Woinans Law Fund, with H.S.R.
- "Replacement Cost Services," prepared for: Litigation Division of the District of Columbia, with H.S.R.
- 1984 "Economic Analysis of the Effect of Pollution," prepared for: The City of Akron, Ohio, with H.S.R.
- 1983 "A Simulation Model of State Tax Revenue and Budgetary Position," prepared for: Office of the Governor, State of Ohio, co-authored with H.S. Rosen and E.A. Weld.
- "Report on Economic Effect of Cardiac Catherization," prepared for Prince George's County Hospital, Prince George County, Maryland, with H.S.R.
- "The Economic Impact of a Regional Shopping Mall in Cape Girado, Missouri," prepared for Robert Manley, Cincinnati, Ohio, with H.S.R.
- "Survey of Subscriber Demographics," prepared for: The Republic Steel Corporation, with H.S.R.
- "Employment Survey for Black Males in Dayton, Ohio, SMSA," prepared for: The Cleveland Office of the EEOC, with H.S.R.
- "Employment and Tax Impact of In-state Pharmaceutical Purchases," submitted to: State Teachers Retirement System, with H.S.R.
- 1982 "Report on Sex and Race Discrimination of the Goodyear Corporation," prepared for: The Cleveland Office of the EEOC, with H.S.R.

Summary Table 4:

Trumbell County Summary by Year			
Year	Total Cost	Present Value	
2021	\$ 87,717,543	\$	87,717,543
2022	\$ 92,522,252	\$	92,217,932
2023	\$ 98,389,763	\$	97,743,591
2024	\$ 104,144,550	\$	103,120,286
2025	\$ 110,059,046	\$	108,618,173
2026	\$ 107,664,511	\$	100,533,577
2027	\$ 113,041,614	\$	104,117,715
2028	\$ 118,555,786	\$	107,710,178
2029	\$ 124,291,618	\$	111,384,189
2030	\$ 130,252,724	\$	115,137,351
2031	\$ 136,348,324	\$	107,980,922
2032	\$ 142,673,219	\$	110,384,835
2033	\$ 149,233,587	\$	112,798,481
2034	\$ 155,932,296	\$	115,144,307
2035	\$ 162,875,750	\$	117,498,561
Total Abatement Cost		\$ 1,833,702,580	\$1,592,107,640

Source: Volume II- Exhibits 1-1, 1-2, 1-3 and 1-4

24. Our findings are detailed in Exhibit 1.

Harvey S. Rosen, Ph.D.

Harvey S. Rosen, Ph.D.
For Burke Rosen & Associates

Presented Papers: (continued)

- "Taxation and Personal Injury Awards as a Result of the Liepelt Decision," Eastern Economic Association, Washington, D.C., March, 1982, with H.S.R.
- 1981 "Structured Settlements: Are they Good for Your Client," Cleveland Trial Advocacy Institute Bar Association of Greater Cleveland, January, 1981.
- 1980 "Economic Forecast and the Law," presented to the International Academy of Trial Attorneys, Rio de Janeiro, Brazil, South America, March, 1980.
- "Financial Aid," Midwest Financial Aid Officers Association, Indianapolis, Indiana, October, 1980.
- "The Consumer Price Index and Financial Aid," Ohio Financial Aid Officers Meeting, May,
- 1979 "The Examination of an Expert Economist," Ohio Forum of Trial Lawyers, Case Western Reserve Litigation Forum, March, 1979.
- 1978 "Financial Aid Requirements," Massachusetts Association of Financial Aid Officers.
- 1977 "More on Financial Aid," The Midwest Association of Financial Aid Officers, St. Louis, Missouri.
- "The Home Equity Question in Financial Aid," Annual meeting of The College Entrance Examination Board, San Francisco.
- 1975 "Damage Testimony from an Economist," The Ohio Academy of Trial Lawyers, Columbus, Ohio, April 4, 1975.
- "Litigators, Computer Simulation and The Regulatory Process," (with co-authors) American Bar Association, Section on Litigation, National Institute, New York, New York, February 7, 1975, with H.S.R.
- 1972 "Some Implications for School Financing in Vouchers for Education," American Association of Law Schools Convention, December, 1972, New York, with E.A. Weld.
- 1970 "Economic Evidence," with Craig Spangenberg and George Meisel, American Bar Association Meeting, St. Louis, Missouri.
- 1969 "The Role of the Economist in the Trial of a Personal Injury Case," an invited paper delivered to the American Trial Lawyers Association, Cleveland, Ohio, October, 1969.

Selected Reports:

- 1989 "The Iowa Soy Bean Cooperative Case"
- "Some Financial Aspects of Free Standing Medical Clinics: The Cincinnati Women's Clinic Case"
- "Age Discrimination at GenCorp: A Result of the Goldsmith Takeover Attempt"
- 1988 "The Economics of the Fast Food Industry: The Burger Chef Case"
- "The Retail Merchandise Manner: The Higbee - Horne Anti - Trust Case"

Presented Papers: (continued)

- "Measuring Economic Damages in Wrongful Employment Discharge Cases" for Plaintiff Employment Lawyer's Association, October 25, 1990.
- 1989 Continuing Legal Education Seminars for county Bar Associations on various topics: "Economics of Business Evaluations," "The Use of Statistics in Discrimination Cases," and "The Economics of Forecasting Income."
- 1987 "Purchasing Power of Ohio Judges," Prepared for the... Select Committee... at the request of Ohio Judges. February 27, 1987, with H.S.R.
- "Evaluation of a Business," Ohio Association of Trial Lawyers, February 20, 1987, Columbus, Ohio, with James Wilsman and H.S.R.
- Federal Trial Practice Seminar prepared at the request of Federal Judge Manos, September 11, 1987, Cleveland, Ohio, with H.S.R.
- Mock Cross-Examination - Cleveland Area Civil Trial Attorneys Association, September 14, 1987.
- 1986 "Economic Evidence as a Teaching Tool," American Bar Association: Section of Litigation, Seattle, Washington, October 15-18, 1986, with H.S.R., presented by J.W. McElhaney.
- "The Underground Economy," City Club, Cleveland, April 18, 1986.
- 1985 "Current Legal-Economic Issues in Trial Practice," Ohio Association of Trial Lawyers, October, 1985.
- "Trial Practice: the Use of Economic Experts," Ohio Association of Civil Trial Attorneys, April, 1985.
- 1985 "Consumption Patterns by Size of Family and Income," Eastern Economic Association, Pittsburgh, Pennsylvania, March, 1985, with H.S.R.
- 1984 "More Evidence on Consumption by Family Size," Eastern Economic Association, New York, March, 1984 with H.S.R.
- 1983 "Consumption by Family Size: A Labor Relations Study," presented to the Allied Social Science Association, San Francisco, December, 1983, with H.S.R.
- "Assessment of Damages by an Expert Economist," Insight, Toronto, Canada, January, 1983.
- 1983 "Preliminary Evidence on Consumption by Family Size," Atlantic Economic Society, Philadelphia, PA., October, 1983, with H.S.R.
- "A Taxation Algorithm in Personal Injury Awards," Eastern Economic Association, Boston, Massachusetts, March, 1983, with H.S.R.
- 1982 Discussant on "The Offset Method of Calculating Personal Injury Awards," Midwestern Economic Association, Chicago, Illinois, April, 1982, with H.S.R.
- "Trends in Financial Aid," Indiana Association of Financial Aid Officers, Indianapolis, Indiana.
- "New Developments in Financial Aid," National Association of Financial Aid Officers, Colorado Springs, Colorado.

Volume I

Lake County

Exhibits 1-1 to 1-4

Lake Exhibit 1-1

Category 1: Prevention –
Reducing Opioid Oversupply
and
Improving Safe Opioid Use

- 1A. Health Professional Education
- 1B. Patient and Public Education
- 1C. Safe Storage and Drug Disposal
- 1D. Community Prevention and Resiliency
- 1E. Harm Reduction
- 1F. Surveillance, Evaluation, and Leadership

Articles: (continued)

- 1983 "The Value of a Professional License," Family Advocate, American Bar Association, Summer, 1984, Vol. 7, No.1, with H.S.R.
- 1983 "Taxes and Compensation for Lost Earnings - A Comment," The Journal of Legal Studies, Vol. 12, No. 1, January, 1983, with H.S.R.
- 1983 "ABC's of Valuing Closely Held Corporations," FairShare, Vol. 3, No. 1, January, 1983, with H.S.R.
- 1982 Edward M. and Fredric A. Swartz, Handbook of Personal Injury Forms and Litigation Materials, "Economist Report on Replacement Cost," (Rochester, New York: The Lawyers Co-Operative Publishing Company, 1982).
- "Economic Value of a Professional License," FairShare, Vol. 2, No. 6, June, 1982, with H.S.R.
- 1981 Modern Trials Video Production: A series of Educational Video Tapes for attorneys, with Melvin Belli, et. al., Produced by Thomas Murray, Copyright: 1982.
- 1976 "Local Government Revenue and Expenditures: A Case Study of Cleveland, 1976," The Law and Economics of Municipal Finance, Selected Readings, Ed. U.S. Crockett Jr., 1976.
- "The Economist's Role in Demonstrating Damages," Recent Developments in the Law of Damages, The Law Society of Upper Canada, Osgood Hall, Toronto, Canada, 1976.
- 1974 "Local Government Revenue and Expenditures: A Case Study of the City of Cleveland 1961-1971," National League of Cities, October, 1974, co-authored with E.A. Weld.
- 1971 The Financing of Higher Education by the State of Ohio 1955 - 1969. Prepared for the Ohio Education Conference Committee, Columbus, Ohio. co-authored with E.A. Weld.
- 1970 "Ohio Tax Manual," Ohio State University, Labor Education and Research Center. co-authored with E.A. Weld.
- 1969 "Eliciting Expert Opinion Evidence: Transcript Testimony of Economist," OHIO LEGAL CENTER INSTITUTE, by Donald P. Traci, J.D., Summer, 1969.

Testimony Prepared for Legislative Bodies:

- Ohio State Senate Hearings on Ohio Insurance Crisis Tort Reform - Invited Testimony, April 9, 1987; April 22, 1987; May 14, 1987.
- Ohio State Senate Hearings on Ohio Insurance Crisis Tort Reform - Invited Testimony, March 19, 1986.
- Congressional Hearings: Committee on Energy and Commerce, 98th Congress 2nd Session on HR 3400, Serial No. 98-115: Acid Rain Control. February 17, 1984.
- Cleveland City Council: Hearing on the UDAG Grant on the Bar Mill Project, "Economic Impact on Cleveland," 1983.
- Congressional Hearing: Cleveland Area Congressmen, "Impact of the Reagan Budget," 1981.
- Many appearances before the Ohio State Legislature on matters dealing with taxation, school finance, the environment and the balanced budget amendment.

Presented Papers:

- 1990 Ohio Personal Injury Damages Seminar, "Working With an Economist" prepared for Professional Education Systems, Inc., April 1990.

Membership in Professional Organizations: (continued)

- Association for Social Economics
- National Association of Business Economists
- Atlantic Economic Association
- Eastern Economic Association
- Mid-West Economic Association
- National Tax Association
- National Academy of Economic Arbitrators

Articles:

- 2010 Brown, R, ed., *Valuing Professional Practices & Licenses: A Guide for the Matrimonial Practitioner*, 3rd ed. (Aspen Publishers 1998-2010), Ch. 31, John F. Burke, Jr., Ph.D and Harvey S. Rosen, Ph. D., "Valuing Educational Attainment as an Educational Asset."
- 1993 "Valuing Educational Attainment as a Distributable Asset," *Valuing Professional Practices and Licenses: A Guide For The Matrimonial Practitioner*, Edited by Ronald L. Brown, Copyright 1993, Prentice Hall Law & Business, co-authored.
- 1991 Co-editor *Handbook of Financial Planning for Divorce and Separation*, 1992 Supplement, Ed. John Wiley & Sons, Inc., New York, NY, with H.S.R.
- "Uniform Child Support Guidelines", *Financial Planning for Divorce and Separation*, Crumbley Apostolov, Ed., second edition.
- 1990 Reprinted, February 1990, "The Value of a Professional License" *Family Advocate*, American Bar Association, Summer, 1984, Vol.7, No. 1, with HSR for use by the Indiana Judicial Center for distribution and application in a seminar to assist in explaining the valuation of interests in closely-held corporations.
- "Economic Models of Valuation in Divorce Proceedings," *Financial Planning for Divorce and Separation*, Crumbley Apostolov, Ed. John Wiley & Sons, Inc., with H.S.R.
- 1987 "Using an Economist in Evaluating Claims," *Settling Personal Injury Insurance Claims in Ohio*, Professional Education Systems, Inc., 1987, with H.S.R.
- "Valuing Educational Attainment as a Distributable Asset," *Expert Valuation of Professions: The Value of Law and Medical Degrees and Licenses Upon Divorce*, Edited by Ronald L. Brown, Copyright 1987, Prentice Hall Law & Business, with H.S.R.
- 1986 "Settling Personal Injury Insurance Claims in Michigan," *Professional Education Systems, Inc.* November 5, 1986, with H.S.R.
- "Forecasting Enhanced Educational Attainment," *FairShare Law and Business, Inc.*, Harcourt and Brace, Vol. 6, May, 1986, with H.S.R.
- 1985 "Economic Value of a Professional License," Reprinted in *Contemporary Matrimonial Law Issues: A Guide to Divorce Economics and Practice*, Edited by Foster & Brown, Law & Business, Harcourt, Brace & Jovanovich, New York, 1985, with H.S.R.
- "Basic Approach to Valuing Closely Held Corporations," Edited by Foster & Brown, *Law & Business, Inc.*, Harcourt, Brace and Jovanovich, New York, 1985, with H.S.R.
- 1984 "Consumption & Family Size," *Proceedings of the Industrial Relations Research Association*, Spring, 1984. co-authored with H.S.R.

Schedule: 1A1. Showing Health Professional Education Total Costs and Present Value 2021-2035

For Academic Detailing						
	Median annual wage of pharmacists (SOC 29-1051) 25	Fringe Benefits % of wages 3	Total annual Compensation 4	Number of detailers required for prescribing population 1	Total Cost 6	Present Value
2021	\$135,865	\$ 36,330	\$172,195	0.3	\$53,310	\$53,310
2022	\$139,931	\$ 37,418	\$177,349	0.3	\$53,606	\$53,429
2023	\$144,119	\$ 38,537	\$182,657	0.3	\$53,829	\$53,476
2024	\$148,433	\$ 39,691	\$188,124	0.3	\$53,974	\$53,443
2025	\$152,875	\$ 40,879	\$193,754	0.3	\$54,032	\$53,325
2026	\$157,451	\$ 42,102	\$199,553	0.3	\$53,997	\$50,420
2027	\$162,163	\$ 43,362	\$205,526	0.3	\$53,859	\$49,607
2028	\$167,017	\$ 44,660	\$211,677	0.3	\$53,611	\$48,707
2029	\$172,016	\$ 45,997	\$218,013	0.2	\$53,243	\$47,714
2030	\$177,164	\$ 47,374	\$224,538	0.2	\$52,745	\$46,624
2031	\$182,467	\$ 48,792	\$231,258	0.2	\$52,108	\$41,267
2032	\$187,928	\$ 50,252	\$238,180	0.2	\$51,319	\$39,705
2033	\$193,552	\$ 51,756	\$245,308	0.2	\$50,367	\$38,070
2034	\$199,345	\$ 53,305	\$252,650	0.2	\$49,239	\$36,360
2035	\$205,312	\$ 54,900	\$260,212	0.2	\$47,923	\$34,572
Total					\$787,162	\$700,028

Notes and Sources:

1 Caleb Alexander, M.D., M.S. Report, see Appendix D

2 U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics: Cleveland SMSA-Youngstown SMSA Metropolitan Statistical Area. May 2019.

3 Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.74 Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

4 Median annual wage of pharmacists + employer provided fringe benefit percentage of wages

5 U.S. Department of Labor, Bureau of Labor Statistics. CPI for Medical Care 2009-2019, 2.99% Annual Average Change.

6 = Total number of detailers required for prescribing population x total annual compensation of pharmacists

Schedule: 1A1. Showing Health Professional Education Total Costs and Present Value 2021-2035

For Academic Detailing

Median Annual Wage of Pharmacists (SOC 29-1051)

CLE-Youngstown MSA 2019

Median Hourly Wage:	\$61.91	2019
Annual Hours:	2,080	
Median Annual Wage:	\$126,150.00	CLE \$126,150 Trumbell \$115,170

Year	Wage	Growth	Wage	Year
2019	\$126,150.00	4.57%	\$131,916.32	2020
2020	\$131,916.32	2.99%	\$135,864.57	2021
2021	\$135,864.57	2.99%	\$139,931.00	2022
2022	\$139,931.00	2.99%	\$144,119.13	2023
2023	\$144,119.13	2.99%	\$148,432.62	2024
2024	\$148,432.62	2.99%	\$152,875.21	2025
2025	\$152,875.21	2.99%	\$157,450.76	2026
2026	\$157,450.76	2.99%	\$162,163.26	2027
2027	\$162,163.26	2.99%	\$167,016.81	2028
2028	\$167,016.81	2.99%	\$172,015.62	2029
2029	\$172,015.62	2.99%	\$177,164.05	2030
2030	\$177,164.05	2.99%	\$182,466.57	2031
2031	\$182,466.57	2.99%	\$187,927.80	2032
2032	\$187,927.80	2.99%	\$193,552.47	2033
2033	\$193,552.47	2.99%	\$199,345.50	2034
2034	\$199,345.50	2.99%	\$205,311.91	2035
2035	\$205,311.91			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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CURRICULUM VITAE

John F. Burke, Jr., Ph.D.

Business Address: BURKE, ROSEN & ASSOCIATES
2800 Euclid Avenue, Suite 300
Cleveland, Ohio 44115

Business Phone: (216) 566-9300

Personal Data: Born: March 25, 1937; Bath, Maine
Married; Ten Children
Veteran - U.S. Navy, HM3

Academic Training:

Degree	Institution	Major	Minor	Year
Ph.D.	University of Notre Dame	Economics	Int'l. Economics	1967
M.A.	University of Notre Dame	Economics	Statistics	1963
B.S.	Boston College	Economics	Business	1961

Academic Experience:

1999-Present	John Carroll University	Adjunct Professor
1994	Cleveland State University	Associate Professor Emeritus
1970-1994	Cleveland State University	Associate Professor
1967-1969	Cleveland State University	Assistant Professor
1965-1967	Eastern Illinois University	Assistant Professor
1963-1965	Indiana University	Instructor
1963-1965	University of Notre Dame	Teaching Assistant

Special Assignments and Awards:

- Appointed by Chief Justice (O.S.C.) T. Moyer as member of Ohio Family Judicial Family Network (1999 to 2007) Chairman 2001-2002
- Invited lecturer at numerous C.L.E. meetings in Ohio
- Mentioned in various "Who's Who's"
- Burke, Rosen & Associates has had numerous court appointments including the Eagle Pitcher Bankruptcy
- Invited Lecturer, University of Ljubljana, Provinces of Slovenia, Ljubljana, Yugoslavia (1989).
- Host: CSU Forum, Bronze Medal Winner in National Competition, (1989).
- Economic Advisor to the Attorney General, of the State of Ohio (1983 - 1985).
- Staff Economist for WKYC Television and NBC, Cleveland, Ohio (1981 - 1984).
- Host of Radio Talk Show, WERE Radio, 1300 AM (1983 - 1984).
- Commencement Address at Cuyahoga Community College (1982).
- Member of College Entrance Examination Board: Committee on Need Assessment Procedures (1978 - 1981).
- Faculty Representative to the Ohio Board of Regents (1972 - 1979).
- Elected Member of the Cleveland Heights-University Heights School Board (1973 - 1974).
- New Frontier Award (1973)

Membership in Professional Organizations:

- American Association of University Professors
- American Economic Association
- American Statistical Association

Exhibit 2-4 of 16 Burke

4D1. Permanent Supportive Housing

Permanent Supportive Housing

Monthly Cost: \$1,430.67 in 2016 dollars
 x 12 months = \$17,168.00

Year	Cost	Rent Growth	Wage	Year
2015	\$17,168.00	3.23%	\$17,722.53	2016
2016	\$17,722.53	3.66%	\$18,370.46	2017
2017	\$18,370.46	3.23%	\$18,963.83	2018
2018	\$18,963.83	3.22%	\$19,573.76	2019
2019	\$19,573.76	3.28%	\$20,215.99	2020
2020	\$20,215.99	2.65%	\$20,751.72	2021
2021	\$20,751.72	2.65%	\$21,301.64	2022
2022	\$21,301.64	2.65%	\$21,866.13	2023
2023	\$21,866.13	2.65%	\$22,445.58	2024
2024	\$22,445.58	2.65%	\$23,040.39	2025
2025	\$23,040.39	2.65%	\$23,650.96	2026
2026	\$23,650.96	2.65%	\$24,277.71	2027
2027	\$24,277.71	2.65%	\$24,921.07	2028
2028	\$24,921.07	2.65%	\$25,581.48	2029
2029	\$25,581.48	2.65%	\$26,259.39	2030
2030	\$26,259.39	2.65%	\$26,955.26	2031
2031	\$26,955.26	2.65%	\$27,669.58	2032
2032	\$27,669.58	2.65%	\$28,402.82	2033
2033	\$28,402.82	2.65%	\$29,155.49	2034
2034	\$29,155.49	2.65%	\$29,928.11	2035
2035	\$29,928.11	2.65%		

Source: Culhane, Metraux et al, Costs associated with Family Homelessness
 in Columbus Ohio, Housing Policy Debate, Volume 18, Issue 1, May 2007

Schedule: 1A2. Showing Health Professional Education Total Costs and Present Value 2021-2035
 For Continuing Healthcare Provider Education

Year	Total continuing education hours ¹	Weighted average median hourly wage for health care providers ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	3,715	\$77.47		\$287,808	\$287,808
2022	1,881	\$79.79	2.99%	\$150,062	\$149,569
2023	1,904	\$82.18	2.99%	\$156,484	\$155,456
2024	1,928	\$84.64	2.99%	\$163,180	\$161,575
2025	1,952	\$87.17	2.99%	\$170,163	\$167,935
2026	1,976	\$89.78	2.99%	\$177,445	\$165,692
2027	2,001	\$92.47	2.99%	\$185,038	\$170,430
2028	2,026	\$95.23	2.99%	\$192,956	\$175,304
2029	2,051	\$98.08	2.99%	\$201,213	\$180,318
2030	2,077	\$101.02	2.99%	\$209,824	\$185,474
2031	2,103	\$104.04	2.99%	\$218,803	\$173,280
2032	2,129	\$107.16	2.99%	\$228,166	\$176,530
2033	2,156	\$110.36	2.99%	\$237,929	\$179,839
2034	2,183	\$113.67	2.99%	\$248,111	\$183,211
2035	2,210	\$117.07	2.99%	\$258,728	\$186,647
Total				\$3,085,910	\$2,699,070

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: Cleveland MSA & Youngstown MSA Bureau of Labor Statistics, May 2019.
 including physicians, dentists, nurse practitioners, physician assistants, etc.

³ U.S. Department of Labor, Bureau of Labor Statistics. CPI for Medical Care 2009-2019, 2.99% Annual Average Change.

⁴ = Total continuing education hours x weighted average median hourly wage

Median Hourly Wage of Physicians (Multiple SOC, see below)
CLE-Youngstown MSA 2019

CLE & YNG- May 2019

SOC	Title
29-1081	Podiatrists
29-1211	Anesthesiologists
29-1215	Family Medicine Physicians
29-1216	General Internal Medicine Physicians
29-1218	Obstetricians and Gynecologists
29-1221	Pediatricians, General
29-1223	Psychiatrists
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric
29-1248	Surgeons, Except Ophthalmologists
29-1021	Dentists
29-1171	Nurse Practitioners
29-1071	Physician Assistants

Employed	Percent	Wage	Weighted	Wage
90	0.70%	\$62.13	\$0.44	None for YNG
320	2.49%	\$132.66	\$3.31	None for YNG
920	7.17%	\$30.81	\$2.21	\$122.24 mean
390	3.04%	\$82.93	\$2.52	none yng
640	4.98%	\$86.97	\$4.33	none yng
110	0.86%	\$72.98	\$0.63	\$86.46 no employ
5,640	43.93%	\$77.13	\$33.88	\$77.13 670
390	3.04%	\$132.63	\$4.03	no yng
900	7.01%	\$95.61	\$6.70	\$64.05 140
1,500	11.68%	\$49.86	\$5.82	\$44.63 250
1,940	15.11%	\$53.40	\$8.07	\$46.48 180
12,840	100.00%	\$877.11	\$71.93	

Median Hourly Wage: \$71.93

use for both counties

Year	Wage	Growth	Wage	Year
2019	\$71.93	4.57%	\$75.22	2020
2020	\$75.22	2.99%	\$77.47	2021
2021	\$77.47	2.99%	\$79.79	2022
2022	\$79.79	2.99%	\$82.18	2023
2023	\$82.18	2.99%	\$84.64	2024
2024	\$84.64	2.99%	\$87.17	2025
2025	\$87.17	2.99%	\$89.78	2026
2026	\$89.78	2.99%	\$92.47	2027
2027	\$92.47	2.99%	\$95.23	2028
2028	\$95.23	2.99%	\$98.08	2029
2029	\$98.08	2.99%	\$101.02	2030
2030	\$101.02	2.99%	\$104.04	2031
2031	\$104.04	2.99%	\$107.16	2032
2032	\$107.16	2.99%	\$110.36	2033
2033	\$110.36	2.99%	\$113.67	2034
2034	\$113.67	2.99%	\$117.07	2035
2035	\$117.07			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dj.xlsx

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Schedule: 4D. Homeless and Housing Insecure Individuals
4D1. Permanent Supportive Housing

Year	Number of homeless Individuals with OUD ¹	Cost per permanent supportive housing per person ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	17	\$20,752		\$354,781	\$354,781
2022	16	\$21,302	2.65%	\$347,835	\$346,691
2023	16	\$21,866	2.65%	\$341,025	\$338,785
2024	15	\$22,446	2.65%	\$334,348	\$331,059
2025	14	\$23,040	2.65%	\$327,801	\$323,510
2026	14	\$23,651	2.65%	\$321,383	\$300,097
2027	13	\$24,278	2.65%	\$315,091	\$290,216
2028	12	\$24,921	2.65%	\$308,922	\$280,661
2029	12	\$25,581	2.65%	\$302,873	\$271,420
2030	11	\$26,259	2.65%	\$296,943	\$262,484
2031	11	\$26,955	2.65%	\$291,129	\$250,559
2032	10	\$27,670	2.65%	\$285,429	\$240,834
2033	10	\$28,403	2.65%	\$279,841	\$231,518
2034	9	\$29,155	2.65%	\$274,362	\$220,595
2035	9	\$29,928	2.65%	\$268,990	\$194,049
				\$4,650,751	\$4,159,260

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Culhane, Metraux et al, Costs associated with Family Homelessness
in Columbus Ohio, Housing Policy Debate, Volume 18, Issue 1, May 2007

³ U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index, All Urban Consumers
(CPI-U), U.S. City Average -- Rent of Shelter. 1990-2019 Annual Average Percent Change

⁴ = Number of permanent supportive housing for homeless individuals with OUD
x cost per permanent supportive housing per person

4C2d. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Foster Care Family Court Costs Per Family

Family Drug Court Cost \$10,500.00 in 2014 dollars

CPI-Legal				
Year	Cost	Growth	Wage	Year
2014	\$10,500.00	1.44%	\$10,650.78	2015
2015	\$10,650.78	2.86%	\$10,955.82	2016
2016	\$10,955.82	4.10%	\$11,404.57	2017
2017	\$11,404.57	1.32%	\$11,555.34	2018
2018	\$11,555.34	6.36%	\$12,290.60	2019
2019	\$12,290.60	-0.95%	\$12,173.84	2020
2020	\$12,173.84	2.55%	\$12,483.67	2021
2021	\$12,483.67	2.55%	\$12,801.38	2022
2022	\$12,801.38	2.55%	\$13,127.17	2023
2023	\$13,127.17	2.55%	\$13,461.26	2024
2024	\$13,461.26	2.55%	\$13,803.85	2025
2025	\$13,803.85	2.55%	\$14,155.15	2026
2026	\$14,155.15	2.55%	\$14,515.40	2027
2027	\$14,515.40	2.55%	\$14,884.82	2028
2028	\$14,884.82	2.55%	\$15,263.64	2029
2029	\$15,263.64	2.55%	\$15,652.10	2030
2030	\$15,652.10	2.55%	\$16,050.44	2031
2031	\$16,050.44	2.55%	\$16,458.93	2032
2032	\$16,458.93	2.55%	\$16,877.81	2033
2033	\$16,877.81	2.55%	\$17,307.35	2034
2034	\$17,307.35	2.55%	\$17,747.82	2035
2035	\$17,747.82	2.55%		

Source: Nancy Young, Ph.D. page 38.

Sched 1B. Showing Patient and Public Education

Year	Mass media coverage population ¹	Cost per capita of media campaign ¹	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	169,633	\$0.42		\$71,576	\$71,576
2022	168,207	\$0.43	1.76%	\$72,220	\$71,983
2023	166,782	\$0.44	1.76%	\$72,865	\$72,387
2024	165,356	\$0.44	1.76%	\$73,510	\$72,787
2025	163,931	\$0.45	1.76%	\$74,156	\$73,185
2026	162,505	\$0.46	1.76%	\$74,801	\$69,847
2027	161,080	\$0.47	1.76%	\$75,446	\$69,490
2028	159,654	\$0.48	1.76%	\$76,091	\$69,130
2029	158,229	\$0.48	1.76%	\$76,735	\$68,766
2030	156,803	\$0.49	1.76%	\$77,378	\$68,398
2031	155,378	\$0.50	1.76%	\$78,020	\$61,788
2032	153,952	\$0.51	1.76%	\$78,661	\$60,859
2033	152,527	\$0.52	1.76%	\$79,300	\$59,939
2034	151,101	\$0.53	1.76%	\$79,938	\$59,028
2035	149,676	\$0.54	1.76%	\$80,574	\$58,126
				\$1,141,271	\$1,007,289

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index All Items, 1990-2019 1.76% Annual Average Change.³ = Mass media coverage population x cost per capita of media campaign

Schedule: 1B. Showing Patient and Public Education

Media Campaign Cost

Monument Analytics: 1B Public Education

CPI				
All Items				
Year	Cost	Growth	Cost	Year
2015	\$0.38	0.70%	\$0.38	2016
2016	\$0.38	2.10%	\$0.39	2017
2017	\$0.39	2.10%	\$0.40	2018
2018	\$0.40	1.90%	\$0.41	2019
2019	\$0.41	2.30%	\$0.41	2020
2020	\$0.41	1.76%	\$0.42	2021
2021	\$0.42	1.76%	\$0.43	2022
2022	\$0.43	1.76%	\$0.44	2023
2023	\$0.44	1.76%	\$0.44	2024
2024	\$0.44	1.76%	\$0.45	2025
2025	\$0.45	1.76%	\$0.46	2026
2026	\$0.46	1.76%	\$0.47	2027
2027	\$0.47	1.76%	\$0.48	2028
2028	\$0.48	1.76%	\$0.48	2029
2029	\$0.48	1.76%	\$0.49	2030
2030	\$0.49	1.76%	\$0.50	2031
2031	\$0.50	1.76%	\$0.51	2032
2032	\$0.51	1.76%	\$0.52	2033
2033	\$0.52	1.76%	\$0.53	2034
2034	\$0.53	1.76%	\$0.54	2035
2035	\$0.54			
cost= Alexander				

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Schedule: 4C. Families and Children

4C2d. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Year	Foster families of children in foster care to receive family treatment courts ¹	Family treatment court cost per family ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	15	\$12,484		\$189,812	\$189,812
2022	15	\$12,801	2.55%	\$185,905	\$185,294
2023	14	\$13,127	2.55%	\$182,079	\$180,883
2024	13	\$13,461	2.55%	\$178,332	\$176,578
2025	13	\$13,804	2.55%	\$174,661	\$172,374
2026	12	\$14,155	2.55%	\$171,066	\$159,736
2027	12	\$14,515	2.55%	\$167,545	\$154,319
2028	11	\$14,885	2.55%	\$164,097	\$149,085
2029	11	\$15,264	2.55%	\$160,719	\$144,029
2030	10	\$15,652	2.55%	\$157,412	\$139,144
2031	10	\$16,050	2.55%	\$154,172	\$122,096
2032	9	\$16,459	2.55%	\$150,998	\$116,826
2033	9	\$16,878	2.55%	\$147,891	\$111,783
2034	8	\$17,307	2.55%	\$144,847	\$106,958
2035	8	\$17,748	2.55%	\$141,865	\$102,342
				\$2,471,402	\$2,211,261

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Nancy Young, Ph.D. Report, see Page 38³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Legal Services. 2009-2019 Annual Average Percent Change⁴ = Number of foster families of children in foster care to receive family treatment courts × family treatment court cost per family

Report Page 183c not attached in original report

4C3c. Support for Adopted Children and Families (Intensive Parent-Child Interventions)

Intensive Parent-Child Interventions Cost Per Child: \$2,275.00

CPI Other Med Prof Svcs				
Year	Cost	Growth	Cost	Year
2020	\$2,275.00	1.28%	\$2,304.05	2021
2021	\$2,304.05	1.28%	\$2,333.47	2022
2022	\$2,333.47	1.28%	\$2,363.27	2023
2023	\$2,363.27	1.28%	\$2,393.45	2024
2024	\$2,393.45	1.28%	\$2,424.02	2025
2025	\$2,424.02	1.28%	\$2,454.97	2026
2026	\$2,454.97	1.28%	\$2,486.32	2027
2027	\$2,486.32	1.28%	\$2,518.07	2028
2028	\$2,518.07	1.28%	\$2,550.23	2029
2029	\$2,550.23	1.28%	\$2,582.79	2030
2030	\$2,582.79	1.28%	\$2,615.78	2031
2031	\$2,615.78	1.28%	\$2,649.18	2032
2032	\$2,649.18	1.28%	\$2,683.01	2033
2033	\$2,683.01	1.28%	\$2,717.27	2034
2034	\$2,717.27	1.28%	\$2,751.97	2035
2035	\$2,751.97	1.28%		

Source: Nancy Young pages 23

Report Page 183b not attached in original report

Sched 1C. Safe Storage and Drug Disposal

Year	Total county population ¹	Opioids Related Collections ¹	Proportion of Medications Collected that are Opioids ¹	Cost per capita per year ¹	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	228,600	10.0%	22,860	\$0.27		\$6,203	\$6,203
2022	228,600	9.6%	22,044	\$0.28	1.76%	\$6,087	\$6,067
2023	228,600	9.3%	21,227	\$0.28	1.76%	\$5,964	\$5,925
2024	228,600	8.9%	20,411	\$0.29	1.76%	\$5,835	\$5,778
2025	228,600	8.6%	19,594	\$0.29	1.76%	\$5,700	\$5,626
2026	228,600	8.2%	18,778	\$0.30	1.76%	\$5,559	\$5,190
2027	228,600	7.9%	17,961	\$0.30	1.76%	\$5,410	\$4,983
2028	228,600	7.5%	17,145	\$0.31	1.76%	\$5,255	\$4,774
2029	228,600	7.1%	16,329	\$0.31	1.76%	\$5,093	\$4,564
2030	228,600	6.8%	15,512	\$0.32	1.76%	\$4,923	\$4,352
2031	228,600	6.4%	14,696	\$0.32	1.76%	\$4,746	\$3,758
2032	228,600	6.1%	13,879	\$0.33	1.76%	\$4,561	\$3,528
2033	228,600	5.7%	13,063	\$0.33	1.76%	\$4,368	\$3,301
2034	228,600	5.4%	12,246	\$0.34	1.76%	\$4,167	\$3,077
2035	228,600	5.0%	11,430	\$0.35	1.76%	\$3,957	\$2,855
Total						\$77,826	\$69,981

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (All items), 2009-2019 1.76% Annual Average Change.³ = Proportion of medications collected that are opioids x cost per capita per year

1C. Safe Storage and Drug Disposal
Drug Take-Back Collection Programs

Suggested Cost Source #1: King County, Washington (2011)
Operating Cost Per Year: \$532,275
County Population: 1,974,200
Cost Per Capita: \$0.27

Year	Cost	Growth	Cost	Year
2011	\$0.270	2.07%	\$0.28	2012
2012	\$0.28	1.46%	\$0.28	2013
2013	\$0.28	1.62%	\$0.28	2014
2014	\$0.28	0.12%	\$0.28	2015
2015	\$0.28	1.26%	\$0.29	2016
2016	\$0.29	2.13%	\$0.29	2017
2017	\$0.29	2.44%	\$0.30	2018
2018	\$0.30	1.81%	\$0.31	2019
2019	\$0.31			

Suggested Cost Source #2: Alameda County, California (2015)
Operating Cost Per Year: \$330,000
County Population: 1,634,538
Cost Per Capita: \$0.20

Year	Cost	Growth	Cost	Year
2015	\$0.20	1.26%	\$0.20	2016
2016	\$0.20	2.13%	\$0.21	2017
2017	\$0.21	2.44%	\$0.21	2018
2018	\$0.21	1.81%	\$0.22	2019
2019	\$0.22			

Average of 2 suggested cost sources in 2019 dollars

King County, WA: \$0.31
Alameda County, CA: \$0.22
Average: \$0.26

Year	Cost	Growth	Cost	Year
2019	\$0.26	1.76%	\$0.27	2020
2020	\$0.27	1.76%	\$0.27	2021
2021	\$0.27	1.76%	\$0.28	2022
2022	\$0.28	1.76%	\$0.28	2023
2023	\$0.28	1.76%	\$0.29	2024
2024	\$0.29	1.76%	\$0.29	2025
2025	\$0.29	1.76%	\$0.30	2026
2026	\$0.30	1.76%	\$0.30	2027
2027	\$0.30	1.76%	\$0.31	2028
2028	\$0.31	1.76%	\$0.31	2029
2029	\$0.31	1.76%	\$0.32	2030
2030	\$0.32	1.76%	\$0.32	2031
2031	\$0.32	1.76%	\$0.33	2032
2032	\$0.33	1.76%	\$0.33	2033
2033	\$0.33	1.76%	\$0.34	2034
2034	\$0.34	1.76%	\$0.35	2035
2035	\$0.35			

Source: Alexander for Collections Decline. Suggested Studies - Alexander.

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Schedule: 4C. Families and Children

4C3c. Support for Adopted Children and Families (Intensive Parent-Child Interventions)

Year	Number of adoptive families to receive intensive parent-child interventions ¹	Intensive parent-child interventions cost per child ²	Annual cost growth rate ³	Total Cost ¹⁴	Present Value
2021	1	\$2,304		\$3,336	\$3,336
2022	1	\$2,333	1.28%	\$3,227	\$3,217
2023	1	\$2,363	1.28%	\$3,122	\$3,101
2024	1	\$2,393	1.28%	\$3,020	\$2,990
2025	1	\$2,424	1.28%	\$2,921	\$2,883
2026	1	\$2,455	1.28%	\$2,826	\$2,638
2027	1	\$2,486	1.28%	\$2,733	\$2,517
2028	1	\$2,518	1.28%	\$2,644	\$2,402
2029	1	\$2,550	1.28%	\$2,557	\$2,292
2030	1	\$2,583	1.28%	\$2,474	\$2,187
2031	1	\$2,616	1.28%	\$2,393	\$1,895
2032	1	\$2,649	1.28%	\$2,315	\$1,791
2033	1	\$2,683	1.28%	\$2,239	\$1,692
2034	1	\$2,717	1.28%	\$2,166	\$1,599
2035	1	\$2,752	1.28%	\$2,095	\$1,511
				\$40,068	\$36,053

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Nancy Young Report, 8/2020, p21.

³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change

⁴ Number of adoptive families to receive intensive parent-child interventions x Intensive parent-child interventions cost per child

Report Page 183b not attached in original report

4C3b. Support for Children In Foster Care (Socio-Emotional Support)

Socio-Emotional Support Per Child: \$4,115.00

Year	Cost	Growth	CPI		Year
			Other	Med Prof Svcs	
2020	\$4,115.00	1.28%		\$4,167.55	2021
2021	\$4,167.55	1.28%		\$4,220.77	2022
2022	\$4,220.77	1.28%		\$4,274.67	2023
2023	\$4,274.67	1.28%		\$4,329.25	2024
2024	\$4,329.25	1.28%		\$4,384.54	2025
2025	\$4,384.54	1.28%		\$4,440.53	2026
2026	\$4,440.53	1.28%		\$4,497.24	2027
2027	\$4,497.24	1.28%		\$4,554.67	2028
2028	\$4,554.67	1.28%		\$4,612.83	2029
2029	\$4,612.83	1.28%		\$4,671.73	2030
2030	\$4,671.73	1.28%		\$4,731.39	2031
2031	\$4,731.39	1.28%		\$4,791.81	2032
2032	\$4,791.81	1.28%		\$4,853.00	2033
2033	\$4,853.00	1.28%		\$4,914.98	2034
2034	\$4,914.98	1.28%		\$4,977.74	2035
2035	\$4,977.74	1.28%			

Source: Nancy Young pages 21

Report Page 183a not attached in original report

Schedule: 1D. Showing Community Prevention and Resiliency

1D1a. Community Resiliency Coalition Staffing: Director

Year	Number of Directors ¹	Median annual director salary ²	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual Growth rate ⁵	Total Cost ⁶	Present Value
2021	0.5	\$69,636	26.74%	\$88,256		\$40,351	\$40,351
2022	0.5	\$71,220	26.74%	\$90,264	2.28%	\$41,269	\$41,133
2023	0.5	\$72,840	26.74%	\$92,317	2.28%	\$42,208	\$41,930
2024	0.5	\$74,497	26.74%	\$94,418	2.28%	\$43,168	\$42,743
2025	0.5	\$76,192	26.74%	\$96,566	2.28%	\$44,150	\$43,572
2026	0.5	\$77,925	26.74%	\$98,763	2.28%	\$45,154	\$42,164
2027	0.5	\$79,698	26.74%	\$101,009	2.28%	\$46,181	\$42,536
2028	0.5	\$81,511	26.74%	\$103,307	2.28%	\$47,232	\$42,911
2029	0.5	\$83,366	26.74%	\$105,658	2.28%	\$48,307	\$43,290
2030	0.5	\$85,262	26.74%	\$108,061	2.28%	\$49,406	\$43,672
2031	0.5	\$87,202	26.74%	\$110,520	2.28%	\$50,530	\$40,017
2032	0.5	\$89,186	26.74%	\$113,034	2.28%	\$51,679	\$39,984
2033	0.5	\$91,215	26.74%	\$115,606	2.28%	\$52,855	\$39,950
2034	0.5	\$93,290	26.74%	\$118,236	2.28%	\$54,057	\$39,917
2035	0.5	\$95,412	26.74%	\$120,925	2.28%	\$55,287	\$39,884
Total						\$711,832	\$624,054

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Area. May 2019 (Social and Community Service Managers SOC: 11-9151)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual director salary + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index(All Items), 1990-2019 Annual Average Percent Change⁶ = Total number of directors x total annual compensation

1D1a. Community Resiliency Coalition Staffing:

Community Resiliency Coalition Staffing: Director

Median Annual Director Salary

Median Annual Wage of Social and Community Service Managers (SOC 11-9151)

CLE MSA & YNG MSA, May 2019.

Median Hourly Wage: \$31.88
 Annual Hours: 2,080
 Median Annual Wage: \$66,310.40

Year	Wage	Growth	Wage	Year
2019	\$66,310.40	2.68%	\$68,086.57	2020
2020	\$68,086.57	2.28%	\$69,635.54	2021
2021	\$69,635.54	2.28%	\$71,219.75	2022
2022	\$71,219.75	2.28%	\$72,840.00	2023
2023	\$72,840.00	2.28%	\$74,497.11	2024
2024	\$74,497.11	2.28%	\$76,191.92	2025
2025	\$76,191.92	2.28%	\$77,925.28	2026
2026	\$77,925.28	2.28%	\$79,698.08	2027
2027	\$79,698.08	2.28%	\$81,511.22	2028
2028	\$81,511.22	2.28%	\$83,365.60	2029
2029	\$83,365.60	2.28%	\$85,262.16	2030
2030	\$85,262.16	2.28%	\$87,201.88	2031
2031	\$87,201.88	2.28%	\$89,185.72	2032
2032	\$89,185.72	2.28%	\$91,214.70	2033
2033	\$91,214.70	2.28%	\$93,289.83	2034
2034	\$93,289.83	2.28%	\$95,412.17	2035
2035	\$95,412.17	2.28%		

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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4C3b. Support for Adopted Children and Families (Socio-Emotional Support)

Year	Number of children adopted to receive socio-emotional support ¹	Socio-emotional support cost per child ²	Annual cost growth rate ³	Total Cost ¹³	Present Value
2021	4	\$4,168		\$15,648	\$15,648
2022	4	\$4,221	1.28%	\$15,136	\$15,087
2023	3	\$4,275	1.28%	\$14,642	\$14,545
2024	3	\$4,329	1.28%	\$14,163	\$14,024
2025	3	\$4,385	1.28%	\$13,700	\$13,521
2026	3	\$4,441	1.28%	\$13,252	\$12,374
2027	3	\$4,497	1.28%	\$12,819	\$11,807
2028	3	\$4,555	1.28%	\$12,400	\$11,265
2029	3	\$4,613	1.28%	\$11,994	\$10,749
2030	2	\$4,672	1.28%	\$11,602	\$10,256
2031	2	\$4,731	1.28%	\$11,223	\$8,888
2032	2	\$4,792	1.28%	\$10,856	\$8,399
2033	2	\$4,853	1.28%	\$10,501	\$7,937
2034	2	\$4,915	1.28%	\$10,158	\$7,501
2035	2	\$4,978	1.28%	\$9,826	\$7,088
				\$187,919	\$169,088

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Nancy Young Report, 8/2020, p12.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change¹³ = Number of children adopted to receive socioemotional support x socioemotional support cost per child

Report Page 183a not attached in original report

4C3a. Support for Adopted Children and Families (Adoption Cost Per Child)

Adoption Cost Per Child \$10,302.00

Year	Cost	CPI Legal Growth	Cost	Year
2020	\$3,677.99	2.55%	\$3,771.60	2021
2021	\$3,771.60	2.55%	\$3,867.58	2022
2022	\$3,867.58	2.55%	\$3,966.01	2023
2023	\$3,966.01	2.55%	\$4,066.95	2024
2024	\$4,066.95	2.55%	\$4,170.45	2025
2025	\$4,170.45	2.55%	\$4,276.59	2026
2026	\$4,276.59	2.55%	\$4,385.43	2027
2027	\$4,385.43	2.55%	\$4,497.04	2028
2028	\$4,497.04	2.55%	\$4,611.49	2029
2029	\$4,611.49	2.55%	\$4,728.85	2030
2030	\$4,728.85	2.55%	\$4,849.20	2031
2031	\$4,849.20	2.55%	\$4,972.61	2032
2032	\$4,972.61	2.55%	\$5,099.17	2033
2033	\$5,099.17	2.55%	\$5,228.94	2034
2034	\$5,228.94	2.55%	\$5,362.02	2035
2035	\$5,362.02	2.55%		

Source: Adoption USA, 2007 Survey of Adoptive Parents,
US Department of Health and Human Services

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Schedule: 1D. Showing Community Prevention and Resiliency
1D1b. Community Resiliency Coalition Staffing: Community Organizers

Year	Number of Community Organizers ¹	Median annual community organizer salary ²	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual Growth rate ⁵	Total Cost ⁶	Present Value
2021	1.4	\$49,474	26.74%	\$62,704		\$86,005	\$86,005
2022	1.4	\$50,600	26.74%	\$64,130	2.28%	\$87,961	\$87,672
2023	1.4	\$51,751	26.74%	\$65,589	2.28%	\$89,962	\$89,372
2024	1.4	\$52,928	26.74%	\$67,082	2.28%	\$92,009	\$91,104
2025	1.4	\$54,133	26.74%	\$68,608	2.28%	\$94,102	\$92,870
2026	1.4	\$55,364	26.74%	\$70,168	2.28%	\$96,243	\$89,869
2027	1.4	\$56,624	26.74%	\$71,765	2.28%	\$98,433	\$90,662
2028	1.4	\$57,912	26.74%	\$73,397	2.28%	\$100,672	\$91,462
2029	1.4	\$59,229	26.74%	\$75,067	2.28%	\$102,962	\$92,270
2030	1.4	\$60,577	26.74%	\$76,775	2.28%	\$105,305	\$93,084
2031	1.4	\$61,955	26.74%	\$78,522	2.28%	\$107,700	\$85,293
2032	1.4	\$63,364	26.74%	\$80,308	2.28%	\$110,150	\$85,222
2033	1.4	\$64,806	26.74%	\$82,135	2.28%	\$112,656	\$85,152
2034	1.4	\$66,280	26.74%	\$84,004	2.28%	\$115,219	\$85,081
2035	1.4	\$67,788	26.74%	\$85,915	2.28%	\$117,841	\$85,010
Total						\$1,517,221	\$1,330,128

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Area. May 2019 (Social and Community Service Managers SOC: 11-9151)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual director salary + employer provided fringe benefit percentage of wages

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (All Items), 1990-2019 Annual Average Percent Change.

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Child, Family and School Social Workers SOC: 21-1021)

⁸ Median annual community organizer salary + employer provided fringe benefit percentage of wages

⁹ = Total number of community organizers × total annual compensation

1D1b. Community Resiliency Coalition Staffing: Community Organizers

Median Annual Community Organizer Salary

Median Annual Wage of Child, Family and School Social Workers (SOC 21-1021)

CLE MSA & YNG MSA, May 2019.

	CLE	YNG
Median Hourly Wage:	\$22.65	\$ 18.81
Annual Hours:	2,080	2080
Median Annual Wage:	\$47,112.00	\$39,124.80

Year	Wage	Growth	Wage	Year
2019	\$47,112.00	2.68%	\$48,373.93	2020
2020	\$48,373.93	2.28%	\$49,474.44	2021
2021	\$49,474.44	2.28%	\$50,599.98	2022
2022	\$50,599.98	2.28%	\$51,751.13	2023
2023	\$51,751.13	2.28%	\$52,928.47	2024
2024	\$52,928.47	2.28%	\$54,132.59	2025
2025	\$54,132.59	2.28%	\$55,364.11	2026
2026	\$55,364.11	2.28%	\$56,623.64	2027
2027	\$56,623.64	2.28%	\$57,911.83	2028
2028	\$57,911.83	2.28%	\$59,229.32	2029
2029	\$59,229.32	2.28%	\$60,576.79	2030
2030	\$60,576.79	2.28%	\$61,954.91	2031
2031	\$61,954.91	2.28%	\$63,364.38	2032
2032	\$63,364.38	2.28%	\$64,805.92	2033
2033	\$64,805.92	2.28%	\$66,280.26	2034
2034	\$66,280.26	2.28%	\$67,788.13	2035
2035	\$67,788.13	2.28%		

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 4C. Families and Children

4C3a. Support for Adopted Children and Families (Adoption Cost Per Child)

Year	Number of children adopted due to parental opioid use ¹	Adoption cost per child ²	Annual cost growth rate ¹¹	Total Cost ¹²	Present Value
2021	7	\$3,772		\$26,225	\$26,225
2022	7	\$3,868	2.55%	\$25,685	\$25,600
2023	6	\$3,966	2.55%	\$25,156	\$24,991
2024	6	\$4,067	2.55%	\$24,639	\$24,396
2025	6	\$4,170	2.55%	\$24,131	\$23,815
2026	6	\$4,277	2.55%	\$23,635	\$22,069
2027	5	\$4,385	2.55%	\$23,148	\$21,321
2028	5	\$4,497	2.55%	\$22,672	\$20,598
2029	5	\$4,611	2.55%	\$22,205	\$19,899
2030	5	\$4,729	2.55%	\$21,748	\$19,224
2031	4	\$4,849	2.55%	\$21,301	\$18,669
2032	4	\$4,973	2.55%	\$20,862	\$18,141
2033	4	\$5,099	2.55%	\$20,433	\$17,644
2034	4	\$5,229	2.55%	\$20,012	\$17,178
2035	4	\$5,362	2.55%	\$19,600	\$16,740
				\$341,452	\$305,511

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Adoption USA, 2007 Survey of Adoptive Parents, US Department of Health and Human Services.

Adoption costs are based on adoptions from foster care which cost substantially less than the average overall adoption cost.

¹¹ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Legal Services. 2009-2019 Annual Average Percent Change¹² = Number of children adopted due to parental opioid use x adoption cost per child

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4C2c. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Intensive Parent-Child Interventions Cost Per Child: \$2,275.00

Year	Cost	Growth	CPI	
			Other	Med Prof Svcs
Year	Cost	Growth	Cost	Year
2020	\$2,275.00	1.28%	\$2,304.05	2021
2021	\$2,304.05	1.28%	\$2,333.47	2022
2022	\$2,333.47	1.28%	\$2,363.27	2023
2023	\$2,363.27	1.28%	\$2,393.45	2024
2024	\$2,393.45	1.28%	\$2,424.02	2025
2025	\$2,424.02	1.28%	\$2,454.97	2026
2026	\$2,454.97	1.28%	\$2,486.32	2027
2027	\$2,486.32	1.28%	\$2,518.07	2028
2028	\$2,518.07	1.28%	\$2,550.23	2029
2029	\$2,550.23	1.28%	\$2,582.79	2030
2030	\$2,582.79	1.28%	\$2,615.78	2031
2031	\$2,615.78	1.28%	\$2,649.18	2032
2032	\$2,649.18	1.28%	\$2,683.01	2033
2033	\$2,683.01	1.28%	\$2,717.27	2034
2034	\$2,717.27	1.28%	\$2,751.97	2035
2035	\$2,751.97	1.28%		

Source: Nancy Young pages 23

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Schedule: 1D. Showing Community Prevention and Resiliency

1D2. Community Resiliency Coalition Space

Year	Number of Community Spaces ¹	Community Space / Office Rent for 50 People + 3 Offices (1,000 ft ²) ¹⁰	Annual Growth rate ⁵	Total Cost ¹²	Present Value
2021	1	\$11,646		\$11,646	\$11,646
2022	1	\$11,954	2.65%	\$11,954	\$11,915
2023	1	\$12,271	2.65%	\$12,271	\$12,190
2024	1	\$12,596	2.65%	\$12,596	\$12,472
2025	1	\$12,930	2.65%	\$12,930	\$12,761
2026	1	\$13,273	2.65%	\$13,273	\$12,394
2027	1	\$13,624	2.65%	\$13,624	\$12,549
2028	1	\$13,985	2.65%	\$13,985	\$12,706
2029	1	\$14,356	2.65%	\$14,356	\$12,865
2030	1	\$14,736	2.65%	\$14,736	\$13,026
2031	1	\$15,127	2.65%	\$15,127	\$11,880
2032	1	\$15,528	2.65%	\$15,528	\$12,014
2033	1	\$15,939	2.65%	\$15,939	\$12,048
2034	1	\$16,362	2.65%	\$16,362	\$12,082
2035	1	\$16,795	2.65%	\$16,795	\$12,116
Total				\$211,124	\$184,764

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (All Items), 1990-2019 Annual Average Percent Change.¹⁰ Local real estate rental property survey www.cityfeet.com.¹² = Number of community spaces x community space office rent

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

1D2. Community Resiliency Coalition Space

Market Comparisons

for Commercial Office

Space in YNG MSA &

CLE MSA

www.CityFeet.com

Trumbull Cnty

Comparable Property 1

311 Niles Courtland Road

1,500 square feet
\$10 per square feet
\$15,000 per year
\$1,250.00 per month

Comparable Property 2

3637 State Road 5

1,500 square feet
\$8 per square feet
\$12,000 per year
\$1,000.00 per month

Comparable Property 3

5015 Mahoning Ave1 W Federal Plaza

560 square feet
\$9 per square feet
\$5,040 per year
\$420.00 per month

Comparable Property 4

6715 Tippecanoe Rd

1,503 square feet
\$12 per square feet
\$18,036 per year
\$1,503.00 per month

Lake Cnty

Market comparison 1:

34900 Chardon Road

1474 square feet
\$15.00 Price per sq. foot
\$22,110 per year
\$1,842.50 per month

Market comparison 2:

7466 Auburn Road

1400 square feet
\$8.42 Price per sq. foot
\$11,788 per year
\$982.33 per month

Market comparison 3:

8007 Auburn Road

1400 square feet
\$12.00 Price per sq. foot
\$16,800 per year
\$1,400.00 per month

Market comparison 4:

8613 Tyler Blvd

2750 square feet
\$9.96 Price per sq. foot
\$27,390 per year
\$2,282.50 per month

	Lake	YNG
Total Square Feet:	7,024	5,063
Total Annual Rent:	\$78,088	\$50,076
Average Rent Per Square Foot:	\$11.12	\$9.89

Suggested Space for 50 People: 1,000 square feet from Alexander

Average Annual Rent: \$11,117.31

Year	Rent	Growth	Rent	Year
2020	\$11,345.00	2.65%	\$11,645.64	2021
2021	\$11,645.64	2.65%	\$11,954.25	2022
2022	\$11,954.25	2.65%	\$12,271.04	2023
2023	\$12,271.04	2.65%	\$12,596.22	2024
2024	\$12,596.22	2.65%	\$12,930.02	2025
2025	\$12,930.02	2.65%	\$13,272.67	2026
2026	\$13,272.67	2.65%	\$13,624.39	2027
2027	\$13,624.39	2.65%	\$13,985.44	2028
2028	\$13,985.44	2.65%	\$14,356.05	2029
2029	\$14,356.05	2.65%	\$14,736.49	2030
2030	\$14,736.49	2.65%	\$15,127.01	2031
2031	\$15,127.01	2.65%	\$15,527.87	2032
2032	\$15,527.87	2.65%	\$15,939.36	2033
2033	\$15,939.36	2.65%	\$16,361.75	2034
2034	\$16,361.75	2.65%	\$16,795.34	2035
2035	\$16,795.34	2.65%		

Lake Average Rent Per Square Foot: \$11.35

Suggested Space for 50 People: 1,000

Lake Average Annual Rent: \$11,345.00

Trumbull Average Annual Rent: \$11,117.31

Average Annual Rent: \$11,231.16

Source: www.cityfeet.com for rental rates; square feet from Alexander

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Schedule: 4C. Families and Children

4C2c. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Year	Number of foster families to receive intensive parent-child interventions ¹	Intensive parent-child interventions cost per family ²	Annual cost growth rate ³	Total Cost ¹⁰	Present Value
2021	15	\$2,304		\$35,033	\$35,033
2022	15	\$2,333	1.28%	\$33,887	\$33,776
2023	14	\$2,363	1.28%	\$32,780	\$32,564
2024	13	\$2,393	1.28%	\$31,708	\$31,396
2025	13	\$2,424	1.28%	\$30,671	\$30,270
2026	12	\$2,455	1.28%	\$29,669	\$29,193
2027	12	\$2,486	1.28%	\$28,699	\$28,143
2028	11	\$2,518	1.28%	\$27,760	\$27,111
2029	11	\$2,550	1.28%	\$26,853	\$26,104
2030	10	\$2,583	1.28%	\$25,975	\$25,121
2031	10	\$2,616	1.28%	\$25,126	\$24,166
2032	9	\$2,649	1.28%	\$24,304	\$23,234
2033	9	\$2,683	1.28%	\$23,510	\$22,321
2034	8	\$2,717	1.28%	\$22,741	\$21,433
2035	8	\$2,752	1.28%	\$21,998	\$20,569
				\$420,712	\$378,555

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² = Nancy Young, Ph.D. Report, 8/2020,p23.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change¹⁰ = Number of foster families of children in foster care to receive services x intensive parent child interventions cost per family

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4C2b. Support for Children In Foster Care (Socio-Emotional Support)

Socio-Emotional Support Per Child: \$4,115.00

CPI
Other
Med Prof
Svcs

Year	Cost	Growth	Cost	Year
2020	\$4,115.00	1.28%	\$4,167.55	2021
2021	\$4,167.55	1.28%	\$4,220.77	2022
2022	\$4,220.77	1.28%	\$4,274.67	2023
2023	\$4,274.67	1.28%	\$4,329.25	2024
2024	\$4,329.25	1.28%	\$4,384.54	2025
2025	\$4,384.54	1.28%	\$4,440.53	2026
2026	\$4,440.53	1.28%	\$4,497.24	2027
2027	\$4,497.24	1.28%	\$4,554.67	2028
2028	\$4,554.67	1.28%	\$4,612.83	2029
2029	\$4,612.83	1.28%	\$4,671.73	2030
2030	\$4,671.73	1.28%	\$4,731.39	2031
2031	\$4,731.39	1.28%	\$4,791.81	2032
2032	\$4,791.81	1.28%	\$4,853.00	2033
2033	\$4,853.00	1.28%	\$4,914.98	2034
2034	\$4,914.98	1.28%	\$4,977.74	2035
2035	\$4,977.74	1.28%		

Source: Nancy Young pages 21

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Schedule: 1D. Showing Community Prevention and Resiliency

1D13. Community Resiliency Coalition Funding

Year	County population for community-based prevention programs ¹	Percentage change in community resiliency coalition funding ¹	Community-based prevention programs cost per capita ¹	Growth rate ⁵	Total Cost ¹⁴	Present Value
2021	199,568	50%	\$3.87		\$386,583	\$386,583
2022	199,568	47%	\$3.49	1.28%	\$325,832	\$324,760
2023	199,568	44%	\$3.14	1.28%	\$274,627	\$272,824
2024	199,568	41%	\$2.82	1.28%	\$231,470	\$229,193
2025	199,568	38%	\$2.54	1.28%	\$195,094	\$192,540
2026	199,568	36%	\$2.29	1.28%	\$164,435	\$153,544
2027	199,568	34%	\$2.06	1.28%	\$138,594	\$127,653
2028	199,568	32%	\$1.85	1.28%	\$116,814	\$106,128
2029	199,568	30%	\$1.67	1.28%	\$98,457	\$88,232
2030	199,568	28%	\$1.50	1.28%	\$82,984	\$73,354
2031	199,568	26%	\$1.35	1.28%	\$69,943	\$55,392
2032	199,568	24%	\$1.22	1.28%	\$58,952	\$45,610
2033	199,568	23%	\$1.09	1.28%	\$49,687	\$37,556
2034	199,568	21%	\$0.98	1.28%	\$41,879	\$30,925
2035	199,568	20%	\$0.89	1.28%	\$35,298	\$25,464
					\$2,270,649	\$2,149,758

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D¹⁴ =Total county population for community based prevention programs × percentage change in community resiliency coalition funding × community based prevention programs cost per capita.

Community Resiliency Coalition Funding

1D13. Community Resiliency Coalition Funding

Annual Decline in				
Year	Cost	Cost	Wage	Year
2012	\$10.00	10.00%	\$9.00	2013
2013	\$9.00	10.00%	\$8.10	2014
2014	\$8.10	10.00%	\$7.29	2015
2015	\$7.29	10.00%	\$6.56	2016
2016	\$6.56	10.00%	\$5.90	2017
2017	\$5.90	10.00%	\$5.31	2018
2018	\$5.31	10.00%	\$4.78	2019
2019	\$4.78	10.00%	\$4.30	2020
2020	\$4.30	10.00%	\$3.87	2021
2021	\$3.87	10.00%	\$3.49	2022
2022	\$3.49	10.00%	\$3.14	2023
2023	\$3.14	10.00%	\$2.82	2024
2024	\$2.82	10.00%	\$2.54	2025
2025	\$2.54	10.00%	\$2.29	2026
2026	\$2.29	10.00%	\$2.06	2027
2027	\$2.06	10.00%	\$1.85	2028
2028	\$1.85	10.00%	\$1.67	2029
2029	\$1.67	10.00%	\$1.50	2030
2030	\$1.50	10.00%	\$1.35	2031
2031	\$1.35	10.00%	\$1.22	2032
2032	\$1.22	10.00%	\$1.09	2033
2033	\$1.09	10.00%	\$0.98	2034
2034	\$0.98	10.00%	\$0.89	2035
2035	\$0.89			

GWTH RATE cpi OTHER MED PROF SVCS

Source: Cost decline by 10% per annum- Alexander

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Schedule: 4C. Families and Children

4C2b. Support for Children in Foster Care (Socio-Emotional Support)

Year	Number of children in foster care to receive socio-emotional support ¹	Socio-emotional support cost per child ²	Annual cost growth rate ³	Total Estimated Cost ⁴	Present Value
2021	29	\$4,168		\$121,707	\$121,707
2022	28	\$4,221	1.28%	\$117,728	\$117,341
2023	27	\$4,275	1.28%	\$113,879	\$113,131
2024	25	\$4,329	1.28%	\$110,156	\$109,073
2025	24	\$4,385	1.28%	\$106,555	\$105,160
2026	23	\$4,441	1.28%	\$103,071	\$96,244
2027	22	\$4,497	1.28%	\$99,701	\$91,831
2028	21	\$4,555	1.28%	\$96,442	\$87,619
2029	20	\$4,613	1.28%	\$93,289	\$83,601
2030	19	\$4,672	1.28%	\$90,239	\$79,767
2031	18	\$4,731	1.28%	\$87,289	\$69,128
2032	18	\$4,792	1.28%	\$84,435	\$65,327
2033	17	\$4,853	1.28%	\$81,675	\$61,734
2034	16	\$4,915	1.28%	\$79,005	\$58,339
2035	15	\$4,978	1.28%	\$76,422	\$55,131
				\$1,461,591	\$1,315,132

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² = 2 Source: Nancy Young Report, 8/2020, p21.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁴ = Number of children in foster care to receive socioemotional support × socioemotional support cost per child

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4C2a. Support for Children In Foster Care (Foster Care Cost Per Child)

Foster Care Annual Cost Per Child: \$11,661.75

CPI-All Items				
Year	Cost	Growth	Cost	Year
2020	\$11,661.75	1.76%	\$11,866.41	2021
2021	\$11,866.41	1.76%	\$12,074.67	2022
2022	\$12,074.67	1.76%	\$12,286.58	2023
2023	\$12,286.58	1.76%	\$12,502.21	2024
2024	\$12,502.21	1.76%	\$12,721.62	2025
2025	\$12,721.62	1.76%	\$12,944.89	2026
2026	\$12,944.89	1.76%	\$13,172.07	2027
2027	\$13,172.07	1.76%	\$13,403.24	2028
2028	\$13,403.24	1.76%	\$13,638.47	2029
2029	\$13,638.47	1.76%	\$13,877.82	2030
2030	\$13,877.82	1.76%	\$14,121.38	2031
2031	\$14,121.38	1.76%	\$14,369.21	2032
2032	\$14,369.21	1.76%	\$14,621.39	2033
2033	\$14,621.39	1.76%	\$14,877.99	2034
2034	\$14,877.99	1.76%	\$15,139.10	2035
2035	\$15,139.10	1.76%		

Trumbull

Age 0-9	Age 10-18	Average
\$ 29.50	\$ 34.40	\$ 31.95
\$ 11,661.75		2020 Annual

Appendix C: Foster Care Maintenance Rates Trumbull County Ohio 2020 . Average daily rate,
www.policymattersohio.org/files/assets/kinshipcareappendicec.pdf and Trumbull County JFS.

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Schedule: 1E1. Showing Syringe Service Programs 2021-2035

Year	Number of opioid injection drug users reached by SSPs ¹	Syringe service program cost per client ¹	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	400	\$851.80		\$340,616	\$340,616
2022	423	\$871.53	2.32%	\$368,524	\$367,312
2023	443	\$891.71	2.32%	\$394,985	\$392,391
2024	460	\$912.36	2.32%	\$420,050	\$415,918
2025	475	\$933.49	2.32%	\$443,768	\$437,958
2026	488	\$955.11	2.32%	\$466,189	\$435,311
2027	499	\$977.23	2.32%	\$487,358	\$448,884
2028	507	\$999.87	2.32%	\$507,322	\$460,911
2029	514	\$1,023.02	2.32%	\$526,124	\$471,487
2030	520	\$1,046.72	2.32%	\$543,806	\$480,699
2031	523	\$1,070.96	2.32%	\$560,411	\$443,817
2032	526	\$1,095.76	2.32%	\$575,978	\$445,628
2033	527	\$1,121.14	2.32%	\$590,545	\$446,364
2034	527	\$1,147.10	2.32%	\$604,150	\$446,119
2035	526	\$1,173.67	2.32%	\$616,830	\$444,981
				\$7,446,655	\$6,478,399

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index (Medical Care Commodities). 2009-2019 2.32% Annual Average Change.³ = Number of opioid injection drug users reached by SSPs × syringe service program cost per client

Syringe Service Programs

1E1. Showing Syringe Service Programs 2021-2035

Syringe Service Program Cost Per Client: \$774.30 in 2016 dollars

CPI-Med Care Components				
Year	Cost	Growth	Cost	Year
2016	\$774.30	3.43%	\$800.84	2017
2017	\$800.84	2.80%	\$823.23	2018
2018	\$823.23	1.16%	\$832.82	2019
2019	\$832.82	-0.04%	\$832.52	2020
2020	\$832.52	2.32%	\$851.80	2021
2021	\$851.80	2.32%	\$871.53	2022
2022	\$871.53	2.32%	\$891.71	2023
2023	\$891.71	2.32%	\$912.36	2024
2024	\$912.36	2.32%	\$933.49	2025
2025	\$933.49	2.32%	\$955.11	2026
2026	\$955.11	2.32%	\$977.23	2027
2027	\$977.23	2.32%	\$999.87	2028
2028	\$999.87	2.32%	\$1,023.02	2029
2029	\$1,023.02	2.32%	\$1,046.72	2030
2030	\$1,046.72	2.32%	\$1,070.96	2031
2031	\$1,070.96	2.32%	\$1,095.76	2032
2032	\$1,095.76	2.32%	\$1,121.14	2033
2033	\$1,121.14	2.32%	\$1,147.10	2034
2034	\$1,147.10	2.32%	\$1,173.67	2035
2035	\$1,173.67	2.32%		

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Schedule: 4C. Families and Children

4C2a. Support for Children in Foster Care (Foster Care Cost Per Child)

Year	Number of children in foster care due to parental opioid use ¹	Foster care cost per child ²	Annual cost growth rate ⁷	Total Estimated Cost ⁸	Present Value
2021	73	\$11,866		\$866,351	\$866,351
2022	70	\$12,075	1.76%	\$841,982	\$839,213
2023	67	\$12,287	1.76%	\$818,300	\$812,925
2024	64	\$12,502	1.76%	\$795,283	\$787,461
2025	61	\$12,722	1.76%	\$772,914	\$762,795
2026	58	\$12,945	1.76%	\$751,174	\$701,421
2027	55	\$13,172	1.76%	\$730,045	\$672,413
2028	53	\$13,403	1.76%	\$709,511	\$644,604
2029	51	\$13,638	1.76%	\$689,554	\$617,945
2030	48	\$13,878	1.76%	\$670,159	\$592,389
2031	46	\$14,121	1.76%	\$651,309	\$515,803
2032	44	\$14,369	1.76%	\$632,989	\$489,737
2033	42	\$14,621	1.76%	\$615,185	\$464,988
2034	40	\$14,878	1.76%	\$597,881	\$441,490
2035	38	\$15,139	1.76%	\$581,064	\$419,180
				\$10,723,699	\$9,628,716

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Appendix C: Foster Care Maintenance Rates Trumbull County Ohio 2020 . Average daily rate. www.policymattersohio.org/files/assets/kinshipcareappendicec.pdf and Trumbull County JFS.⁷ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- All Items. 2009-2019 Annual Average Percent Change⁸ = Number of children in foster care due to parental opioid use x foster care cost per child

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4C1b. Support for Families with Parents with OUD

Intensive Parent-Child Interventions Cost Per Child: \$2,275.00

Year	Cost	Growth	CPI Other Med Prof Svcs	
			Cost	Year
2020	\$2,275.00	1.28%	\$2,304.05	2021
2021	\$2,304.05	1.28%	\$2,333.47	2022
2022	\$2,333.47	1.28%	\$2,363.27	2023
2023	\$2,363.27	1.28%	\$2,393.45	2024
2024	\$2,393.45	1.28%	\$2,424.02	2025
2025	\$2,424.02	1.28%	\$2,454.97	2026
2026	\$2,454.97	1.28%	\$2,486.32	2027
2027	\$2,486.32	1.28%	\$2,518.07	2028
2028	\$2,518.07	1.28%	\$2,550.23	2029
2029	\$2,550.23	1.28%	\$2,582.79	2030
2030	\$2,582.79	1.28%	\$2,615.78	2031
2031	\$2,615.78	1.28%	\$2,649.18	2032
2032	\$2,649.18	1.28%	\$2,683.01	2033
2033	\$2,683.01	1.28%	\$2,717.27	2034
2034	\$2,717.27	1.28%	\$2,751.97	2035
2035	\$2,751.97	1.28%		

Source: Nancy Young pages 21 & 22

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Schedul 1E2a. Showing Drug Checking Machines Required 2021-2035

Year	Number of drug checking machines needed ¹	Cost per drug checking machine ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	8.8	\$20,694		\$181,072	\$181,072
2022	-	\$ -	2.32%	\$ -	\$ -
2023	-	\$ -	2.32%	\$ -	\$ -
2024	-	\$ -	2.32%	\$ -	\$ -
2025	-	\$ -	2.32%	\$ -	\$ -
2026	-	\$ -	2.32%	\$ -	\$ -
2027	-	\$ -	2.32%	\$ -	\$ -
2028	-	\$ -	2.32%	\$ -	\$ -
2029	-	\$ -	2.32%	\$ -	\$ -
2030	-	\$ -	2.32%	\$ -	\$ -
2031	-	\$ -	2.32%	\$ -	\$ -
2032	-	\$ -	2.32%	\$ -	\$ -
2033	-	\$ -	2.32%	\$ -	\$ -
2034	-	\$ -	2.32%	\$ -	\$ -
2035	-	\$ -	2.32%	\$ -	\$ -
				\$181,072	\$181,072

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (Medical Care Commodities). 2009-2019 Annual Average Percent Change.³ = Number of drug checking machines needed x cost per drug checking machine

1E2a. Showing Drug Checking Machines Required 2021-2035

Drug Checking Machines

Cost Per Drug Checking Machine: \$20,000 in 2018 \$\$

Year	Cost	Growth	Cost	Year
2018	\$20,000.00	1.16%	\$20,232.80	2019
2019	\$20,232.80	-0.04%	\$20,225.52	2020
2020	\$20,225.52	2.32%	\$20,693.94	2021
2021	\$20,693.94	2.32%		

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Schedule: 4C. Families and Children

4C1b. Support for Families with Parents with OUD

Year	Number of families to receive peer/family mentoring services ¹	Intensive parent-child interventions cost per family ²	Peer/family mentoring services cost per family ²	Total support for families with parents with OUD ⁵	Annual cost growth rate ³	Total Cost ⁶	Present Value
2021	283	\$2,304	\$30,383	\$32,687		\$9,265,165	\$9,265,165
2022	271	\$2,333	\$30,771	\$33,105	1.28%	\$8,962,261	\$8,932,782
2023	259	\$2,363	\$31,164	\$33,527	1.28%	\$8,669,258	\$8,612,323
2024	247	\$2,393	\$31,562	\$33,955	1.28%	\$8,385,835	\$8,303,361
2025	236	\$2,424	\$31,965	\$34,389	1.28%	\$8,111,678	\$8,005,482
2026	225	\$2,455	\$32,373	\$34,828	1.28%	\$7,846,484	\$7,726,789
2027	215	\$2,486	\$32,787	\$35,273	1.28%	\$7,589,960	\$6,990,782
2028	206	\$2,518	\$33,205	\$35,723	1.28%	\$7,341,822	\$6,670,185
2029	196	\$2,550	\$33,629	\$36,180	1.28%	\$7,101,797	\$6,364,290
2030	187	\$2,583	\$34,059	\$36,642	1.28%	\$6,869,619	\$6,072,424
2031	179	\$2,616	\$34,494	\$37,110	1.28%	\$6,645,031	\$5,762,526
2032	171	\$2,649	\$34,934	\$37,583	1.28%	\$6,427,786	\$4,973,113
2033	163	\$2,683	\$35,380	\$38,063	1.28%	\$6,217,643	\$4,699,617
2034	156	\$2,717	\$35,832	\$38,549	1.28%	\$6,014,371	\$4,441,162
2035	149	\$2,752	\$36,290	\$39,042	1.28%	\$5,817,744	\$4,196,920
						\$111,266,456	\$100,116,921

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² = Nancy Young, Ph.D. Report, 8/2020, p12 & 22.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁵ = Total support for families with parents of OUD = intensive parent child interventions cost per family + peer family mentoring services cost per family⁶ = Number families with parents with OUD to receive services × total support for families with parents with OUD

4C1a. Support for Children Living with Parents with OUD (Socio-Emotional Support)

Socio-Emotional Support Per Child: \$4,115.00

CPI Other Med Prof Svcs				
Year	Cost	Growth	Cost	Year
2020	\$4,115.00	1.28%	\$4,167.55	2021
2021	\$4,167.55	1.28%	\$4,220.77	2022
2022	\$4,220.77	1.28%	\$4,274.67	2023
2023	\$4,274.67	1.28%	\$4,329.25	2024
2024	\$4,329.25	1.28%	\$4,384.54	2025
2025	\$4,384.54	1.28%	\$4,440.53	2026
2026	\$4,440.53	1.28%	\$4,497.24	2027
2027	\$4,497.24	1.28%	\$4,554.67	2028
2028	\$4,554.67	1.28%	\$4,612.83	2029
2029	\$4,612.83	1.28%	\$4,671.73	2030
2030	\$4,671.73	1.28%	\$4,731.39	2031
2031	\$4,731.39	1.28%	\$4,791.81	2032
2032	\$4,791.81	1.28%	\$4,853.00	2033
2033	\$4,853.00	1.28%	\$4,914.98	2034
2034	\$4,914.98	1.28%	\$4,977.74	2035
2035	\$4,977.74	1.28%		

Source: Nancy Young pages 21 & 22

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Schedule: 1E2b. Showing Drug Checking Machines Recurring Costs 2021-2035

Year	Number of clinical laboratory technicians ¹	Median annual wage of clinical laboratory technicians ^{2,5}	Employer Paid Fringe Benefits (percent of wages) ³	Total annual Compensation ⁴	Total Cost ⁶	Present Value
2021	1	\$ 60,709	\$ 16,233	\$ 76,942	\$ 76,942	\$ 76,942
2022	1	\$ 61,905	\$ 16,553	\$ 78,458	\$ 78,458	\$ 78,200
2023	1	\$ 63,124	\$ 16,879	\$ 80,004	\$ 80,004	\$ 79,478
2024	1	\$ 64,368	\$ 17,212	\$ 81,580	\$ 81,580	\$ 80,777
2025	1	\$ 65,636	\$ 17,551	\$ 83,187	\$ 83,187	\$ 82,098
2026	1	\$ 66,929	\$ 17,897	\$ 84,825	\$ 84,825	\$ 79,207
2027	1	\$ 68,247	\$ 18,249	\$ 86,497	\$ 86,497	\$ 79,668
2028	1	\$ 69,592	\$ 18,609	\$ 88,201	\$ 88,201	\$ 80,132
2029	1	\$ 70,963	\$ 18,975	\$ 89,938	\$ 89,938	\$ 80,598
2030	1	\$ 72,361	\$ 19,349	\$ 91,710	\$ 91,710	\$ 81,067
2031	1	\$ 73,786	\$ 19,730	\$ 93,517	\$ 93,517	\$ 74,060
2032	1	\$ 75,240	\$ 20,119	\$ 95,359	\$ 95,359	\$ 73,778
2033	1	\$ 76,722	\$ 20,515	\$ 97,237	\$ 97,237	\$ 73,497
2034	1	\$ 78,233	\$ 20,920	\$ 99,153	\$ 99,153	\$ 73,217
2035	1	\$ 79,775	\$ 21,332	\$ 101,106	\$ 101,106	\$ 72,938
		\$ 1,047,588	\$ 280,125	\$ 1,327,712	\$ 1,327,712	\$ 1,165,658

Notes and Sources:¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019. (Clinical Laboratory Technologists and Technicians SOC 29-2010)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 25.47% Percent ofTotal Compensation: Civilian workers, by major occupational and industry group, 2002-2019
economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ Median annual wage of clinical laboratory technicians + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index,

Total Compensation Health Care Workers-2009-2019, 1.97% Annual Average Change.

⁶ = Number of clinical laboratory technicians needed × total annual compensation of clinical laboratory technicians

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1E2b. Showing Drug Checking Machines Recurring Costs 2021-2035

Median Annual Wage of Clinical Laboratory Technologists and Technicians (SOC 29-2010)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$28.07

Annual Hours: 2,080

Median Annual Wage: \$58,386

cle 28.07 yng 24.58

Year	Wage	Growth	Wage	Year
2019	\$58,385.60	1.97%	\$59,535.80	2020
2020	\$59,535.80	1.97%	\$60,708.65	2021
2021	\$60,708.65	1.97%	\$61,904.61	2022
2022	\$61,904.61	1.97%	\$63,124.13	2023
2023	\$63,124.13	1.97%	\$64,367.68	2024
2024	\$64,367.68	1.97%	\$65,635.72	2025
2025	\$65,635.72	1.97%	\$66,928.75	2026
2026	\$66,928.75	1.97%	\$68,247.24	2027
2027	\$68,247.24	1.97%	\$69,591.71	2028
2028	\$69,591.71	1.97%	\$70,962.67	2029
2029	\$70,962.67	1.97%	\$72,360.63	2030
2030	\$72,360.63	1.97%	\$73,786.14	2031
2031	\$73,786.14	1.97%	\$75,239.72	2032
2032	\$75,239.72	1.97%	\$76,721.95	2033
2033	\$76,721.95	1.97%	\$78,233.37	2034
2034	\$78,233.37	1.97%	\$79,774.57	2035
2035	\$79,774.57			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 4C. Families and Children

4C1a. Support for Children Living with Parents with OUD (Socio-Emotional Support)

Year	Children to receive socio-emotional support ¹	Socio-emotional support cost per child ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	652	\$4,168		\$2,716,968	\$2,716,968
2022	623	\$4,221	1.28%	\$2,628,143	\$2,619,499
2023	595	\$4,275	1.28%	\$2,542,221	\$2,525,525
2024	568	\$4,329	1.28%	\$2,459,109	\$2,434,924
2025	543	\$4,385	1.28%	\$2,378,714	\$2,347,572
2026	518	\$4,441	1.28%	\$2,300,947	\$2,148,548
2027	495	\$4,497	1.28%	\$2,225,722	\$2,050,016
2028	473	\$4,555	1.28%	\$2,152,957	\$1,956,002
2029	451	\$4,613	1.28%	\$2,082,570	\$1,866,300
2030	431	\$4,672	1.28%	\$2,014,485	\$1,780,711
2031	412	\$4,731	1.28%	\$1,948,626	\$1,543,212
2032	393	\$4,792	1.28%	\$1,884,920	\$1,458,343
2033	376	\$4,853	1.28%	\$1,823,296	\$1,378,142
2034	359	\$4,915	1.28%	\$1,763,687	\$1,302,351
2035	343	\$4,978	1.28%	\$1,706,027	\$1,230,728
				\$32,628,393	\$29,358,841

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² = Nancy Young, Ph.D. Report, p21 & 22.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁴ = Number of children to receive socio-emotional support × socio-emotional support cost per child

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4B3. School Social Workers

Median Hourly Wage of Healthcare Social Workers (SOC 21-1022)

CLE MSA & YNG MSA May 2019

Median Hourly Wage:	\$25.32	cle	yng	28.23	\$ 25.32
Annual Hours:	2,080				
Median Annual Wage:	\$52,665.60				

Year	Wage	Growth	Wage	Year
2019	\$52,665.60	1.97%	\$53,703.11	2020
2020	\$53,703.11	1.97%	\$54,761.06	2021
2021	\$54,761.06	1.97%	\$55,839.86	2022
2022	\$55,839.86	1.97%	\$56,939.90	2023
2023	\$56,939.90	1.97%	\$58,061.62	2024
2024	\$58,061.62	1.97%	\$59,205.43	2025
2025	\$59,205.43	1.97%	\$60,371.78	2026
2026	\$60,371.78	1.97%	\$61,561.10	2027
2027	\$61,561.10	1.97%	\$62,773.86	2028
2028	\$62,773.86	1.97%	\$64,010.50	2029
2029	\$64,010.50	1.97%	\$65,271.51	2030
2030	\$65,271.51	1.97%	\$66,557.36	2031
2031	\$66,557.36	1.97%	\$67,868.54	2032
2032	\$67,868.54	1.97%	\$69,205.55	2033
2033	\$69,205.55	1.97%	\$70,568.90	2034
2034	\$70,568.90	1.97%	\$71,959.10	2035
2035	\$71,959.10	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Sche:1E3. Showing the Number of Fentanyl Testing Strips Needed 2021-2035

Year	Fentanyl Testing Strips Needed ¹	Cost Per Fentanyl Testing Strip ¹	Annual Growth Rate ²	Total Cost ³	Present Value
2021	145,956	\$ 1.02		\$ 149,336	\$ 149,336
2022	154,340	\$ 1.05	2.32%	\$ 161,572	\$ 161,041
2023	161,678	\$ 1.07	2.32%	\$ 173,173	\$ 172,036
2024	168,045	\$ 1.10	2.32%	\$ 184,162	\$ 182,351
2025	173,515	\$ 1.12	2.32%	\$ 194,561	\$ 192,014
2026	178,156	\$ 1.15	2.32%	\$ 204,391	\$ 190,853
2027	182,030	\$ 1.17	2.32%	\$ 213,672	\$ 196,804
2028	185,197	\$ 1.20	2.32%	\$ 222,425	\$ 202,077
2029	187,713	\$ 1.23	2.32%	\$ 230,668	\$ 206,714
2030	189,631	\$ 1.26	2.32%	\$ 238,421	\$ 210,753
2031	190,997	\$ 1.29	2.32%	\$ 245,701	\$ 194,582
2032	191,859	\$ 1.32	2.32%	\$ 252,526	\$ 195,376
2033	192,259	\$ 1.35	2.32%	\$ 258,912	\$ 195,699
2034	192,236	\$ 1.38	2.32%	\$ 264,877	\$ 195,592
2035	191,828	\$ 1.41	2.32%	\$ 270,436	\$ 195,093
				\$ 3,264,832	\$ 2,840,321

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (Medical Care Commodities). 2009-2019, 2.32% Annual Average Change.³ = Number of fentanyl testing strips needed x cost per fentanyl testing strip

1E3. Showing the Number of Fentanyl Testing Strips Needed 2021-2035

Fentanyl Testing Strips

Cost Per Fentanyl Testing Strip: \$1.00 in 2020 \$s

CPI-Med Commod				
Year	Cost	Growth	Cost	Year
2020	\$1.00	2.32%	\$1.02	2021
2021	\$1.02	2.32%	\$1.05	2022
2022	\$1.05	2.32%	\$1.07	2023
2023	\$1.07	2.32%	\$1.10	2024
2024	\$1.10	2.32%	\$1.12	2025
2025	\$1.12	2.32%	\$1.15	2026
2026	\$1.15	2.32%	\$1.17	2027
2027	\$1.17	2.32%	\$1.20	2028
2028	\$1.20	2.32%	\$1.23	2029
2029	\$1.23	2.32%	\$1.26	2030
2030	\$1.26	2.32%	\$1.29	2031
2031	\$1.29	2.32%	\$1.32	2032
2032	\$1.32	2.32%	\$1.35	2033
2033	\$1.35	2.32%	\$1.38	2034
2034	\$1.38	2.32%	\$1.41	2035
2035	\$1.41			

Source: Alexander

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4B. Adolescents and Young Adults

4B3. School Social Workers

Year	Number of School Social Workers ¹	Median wage of School Social Worker ⁷	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁸	Annual growth rate ⁵	Total Cost ⁹	Present Value
2021	12.5	\$54,761	26.74%	\$69,404	1.970%	\$871,000	\$871,000
2022	12.0	\$55,840	26.74%	\$70,771	1.970%	\$848,289	\$845,499
2023	11.4	\$56,940	26.74%	\$72,166	1.970%	\$826,171	\$820,745
2024	10.9	\$58,062	26.74%	\$73,587	1.970%	\$804,629	\$796,716
2025	10.4	\$59,205	26.74%	\$75,037	1.970%	\$783,650	\$773,390
2026	10.0	\$60,372	26.74%	\$76,515	1.970%	\$763,217	\$712,667
2027	9.5	\$61,561	26.74%	\$78,023	1.970%	\$743,317	\$684,637
2028	9.1	\$62,774	26.74%	\$79,560	1.970%	\$723,935	\$657,709
2029	8.7	\$64,011	26.74%	\$81,127	1.970%	\$705,060	\$631,841
2030	8.3	\$65,272	26.74%	\$82,725	1.970%	\$686,676	\$606,990
2031	7.9	\$66,557	26.74%	\$84,355	1.970%	\$668,771	\$529,633
2032	7.6	\$67,869	26.74%	\$86,017	1.970%	\$651,334	\$503,931
2033	7.2	\$69,206	26.74%	\$87,711	1.970%	\$634,351	\$479,475
2034	6.9	\$70,569	26.74%	\$89,439	1.970%	\$617,811	\$456,207
2035	6.6	\$71,959	26.74%	\$91,201	1.970%	\$601,702	\$434,068
						\$10,929,913	\$9,804,506

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change⁶ = Total number of MAT recruitment consultants needed x total annual compensation of nurse practitioners⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019 (Healthcare Social Workers SOC: 21-1022)⁸ = Median annual social worker wage + employer provided fringe benefit percentage of wages⁹ = Total number of school social workers x total annual compensation of school social worker

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4B2. Adolescents Screening for Opioid Use Disorder

Cost per adolescent

Year	Cost	CPI		Wage	Year
		Med Care	Svcs		
2017	\$74.73	1.64%		\$73.92	2018
2018	\$73.92	2.64%		\$75.88	2019
2019	\$75.88	5.09%		\$79.73	2020
2020	\$79.73	3.18%		\$82.27	2021
2021	\$82.27	3.18%		\$84.89	2022
2022	\$84.89	3.18%		\$87.59	2023
2023	\$87.59	3.18%		\$90.37	2024
2024	\$90.37	3.18%		\$93.25	2025
2025	\$93.25	3.18%		\$96.21	2026
2026	\$96.21	3.18%		\$99.28	2027
2027	\$99.28	3.18%		\$102.43	2028
2028	\$102.43	3.18%		\$105.69	2029
2029	\$105.69	3.18%		\$109.05	2030
2030	\$109.05	3.18%		\$112.52	2031
2031	\$112.52	3.18%		\$116.10	2032
2032	\$116.10	3.18%		\$119.80	2033
2033	\$119.80	3.18%		\$123.61	2034
2034	\$123.61	3.18%		\$127.54	2035
2035	\$127.54	3.18%			

\$73.00 2017\$

Source: Alexander

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Schedule: 1F1. Showing Surveillance, Evaluation, and Leadership-
Number of Directors & Director Compensation

Year	Number of Directors ¹	Median annual wage of Director ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴ of Directors	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.5	\$115,877	26.74%	\$146,863	2.43%	\$67,146	\$67,146
2022	0.5	\$118,513	26.74%	\$150,204	2.43%	\$68,673	\$68,447
2023	0.5	\$121,210	26.74%	\$153,621	2.43%	\$70,236	\$69,774
2024	0.5	\$123,967	26.74%	\$157,116	2.43%	\$71,833	\$71,127
2025	0.5	\$126,787	26.74%	\$160,690	2.43%	\$73,468	\$72,506
2026	0.5	\$129,672	26.74%	\$164,346	2.43%	\$75,139	\$70,162
2027	0.5	\$132,622	26.74%	\$168,085	2.43%	\$76,848	\$70,782
2028	0.5	\$135,639	26.74%	\$171,909	2.43%	\$78,597	\$71,407
2029	0.5	\$138,725	26.74%	\$175,820	2.43%	\$80,385	\$72,037
2030	0.5	\$141,881	26.74%	\$179,820	2.43%	\$82,214	\$72,673
2031	0.5	\$145,109	26.74%	\$183,911	2.43%	\$84,084	\$66,590
2032	0.5	\$148,410	26.74%	\$188,095	2.43%	\$85,997	\$66,535
2033	0.5	\$151,786	26.74%	\$192,374	2.43%	\$87,953	\$66,480
2034	0.5	\$155,239	26.74%	\$196,750	2.43%	\$89,954	\$66,424
2035	0.5	\$158,771	26.74%	\$201,226	2.43%	\$92,001	\$66,369
						\$1,184,527	\$1,038,459

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (CEO/Director SOC: 11-1011)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ Median annual wage of director + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.⁶ = Total number of directors × total annual compensation of directors

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1F1. Showing Surveillance, Evaluation, and Leadership-

Median Annual Wage of Medical and Health Service ceo/directors(SOC 11-1011)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$53.05 cle yng none 53.05

Annual Hours: 2,080

Median Annual Wage: \$110,344.00

ECI				
Year	Wage	Growth	Wage	Year
2019	\$110,344.00	2.68%	\$113,299.64	2020
2020	\$113,299.64	2.28%	\$115,877.21	2021
2021	\$115,877.21	2.28%	\$118,513.42	2022
2022	\$118,513.42	2.28%	\$121,209.60	2023
2023	\$121,209.60	2.28%	\$123,967.11	2024
2024	\$123,967.11	2.28%	\$126,787.37	2025
2025	\$126,787.37	2.28%	\$129,671.78	2026
2026	\$129,671.78	2.28%	\$132,621.81	2027
2027	\$132,621.81	2.28%	\$135,638.96	2028
2028	\$135,638.96	2.28%	\$138,724.74	2029
2029	\$138,724.74	2.28%	\$141,880.73	2030
2030	\$141,880.73	2.28%	\$145,108.52	2031
2031	\$145,108.52	2.28%	\$148,409.74	2032
2032	\$148,409.74	2.28%	\$151,786.06	2033
2033	\$151,786.06	2.28%	\$155,239.19	2034
2034	\$155,239.19	2.28%	\$158,770.88	2035
2035	\$158,770.88			

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Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

Schedule: 4B. Adolescents and Young Adults

4B2. Adolescents Screening for Opioid Use Disorder

Year	Number of adolescents to receive ¹	Cost per adolescent ¹	Annual cost growth rate ⁴	Total Cost ⁵	Present Value
2021	535	\$82.27		\$44,009	\$44,009
2022	511	\$84.89	3.18%	\$43,370	\$43,228
2023	488	\$87.59	3.18%	\$42,741	\$42,460
2024	466	\$90.37	3.18%	\$42,121	\$41,707
2025	445	\$93.25	3.18%	\$41,510	\$40,967
2026	425	\$96.21	3.18%	\$40,908	\$38,198
2027	406	\$99.28	3.18%	\$40,314	\$37,132
2028	388	\$102.43	3.18%	\$39,729	\$36,095
2029	370	\$105.69	3.18%	\$39,153	\$35,087
2030	354	\$109.05	3.18%	\$38,585	\$34,107
2031	338	\$112.52	3.18%	\$38,025	\$30,114
2032	323	\$116.10	3.18%	\$37,474	\$28,993
2033	308	\$119.80	3.18%	\$36,930	\$27,914
2034	294	\$123.61	3.18%	\$36,394	\$26,874
2035	281	\$127.54	3.18%	\$35,866	\$25,874
				\$597,130	\$532,758

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Workers Workers, 2009-2019 Annual Average Percent Change.⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Average Percent Change⁵ = Number of adolescents to receive x cost per adolescent

4B1. School-Based Prevention Programs

School-Based Prevention Programs

Monument Analytics

Cost per prevention intervention per adolescent

Year	ECI All Wkrs			Year
	Cost	Growth	Wage	
2008	\$ 52.00	2.45%	\$53.27	2009
2009	\$53.27	1.19%	\$53.91	2010
2010	\$53.91	2.09%	\$55.03	2011
2011	\$55.03	2.22%	\$56.26	2012
2012	\$56.26	1.83%	\$57.28	2013
2013	\$57.28	1.96%	\$58.41	2014
2014	\$58.41	2.35%	\$59.78	2015
2015	\$59.78	1.88%	\$60.90	2016
2016	\$60.90	2.17%	\$62.22	2017
2017	\$62.22	2.59%	\$63.84	2018
2018	\$63.84	2.99%	\$65.75	2019
2019	\$65.75	2.68%	\$67.51	2020
2020	\$67.51	2.28%	\$69.04	2021
2021	\$69.04	2.28%	\$70.61	2022
2022	\$70.61	2.28%	\$72.22	2023
2023	\$72.22	2.28%	\$73.86	2024
2024	\$73.86	2.28%	\$75.54	2025
2025	\$75.54	2.28%	\$77.26	2026
2026	\$77.26	2.28%	\$79.02	2027
2027	\$79.02	2.28%	\$80.82	2028
2028	\$80.82	2.28%	\$82.66	2029
2029	\$82.66	2.28%	\$84.54	2030
2030	\$84.54	2.28%	\$86.46	2031
2031	\$86.46	2.28%	\$88.43	2032
2032	\$88.43	2.28%	\$90.44	2033
2033	\$90.44	2.28%	\$92.50	2034
2034	\$92.50	2.28%	\$94.60	2035
2035	\$94.60	2.28%		

\$ 52.00
2008\$ Miller

Source: Alexander

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Schedule: 1F2. Showing Surveillance, Evaluation, and Leadership-
Number and Compensation of Data Analysts

Year	Number of Data Analysts ¹	Median annual wage of Data Analysts ²	Employer Paid Fringe Benefits ³	Total Compensation of Data Analysts ⁴		Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	1.8	\$84,401	26.74%	\$106,970	2.43%		\$195,627	\$195,627
2022	1.8	\$86,322	26.74%	\$109,404	2.43%		\$200,078	\$199,420
2023	1.8	\$88,285	26.74%	\$111,893	2.43%		\$204,630	\$203,286
2024	1.8	\$90,294	26.74%	\$114,438	2.43%		\$209,285	\$207,227
2025	1.8	\$92,348	26.74%	\$117,042	2.43%		\$214,046	\$211,244
2026	1.8	\$94,449	26.74%	\$119,705	2.43%		\$218,916	\$204,416
2027	1.8	\$96,598	26.74%	\$122,428	2.43%		\$223,896	\$206,221
2028	1.8	\$98,795	26.74%	\$125,213	2.43%		\$228,990	\$208,042
2029	1.8	\$101,043	26.74%	\$128,062	2.43%		\$234,199	\$209,878
2030	1.8	\$103,342	26.74%	\$130,975	2.43%		\$239,527	\$211,731
2031	1.8	\$105,693	26.74%	\$133,955	2.43%		\$244,977	\$194,009
2032	1.8	\$108,097	26.74%	\$137,002	2.43%		\$250,550	\$193,848
2033	1.8	\$110,556	26.74%	\$140,119	2.43%		\$256,250	\$193,687
2034	1.8	\$113,071	26.74%	\$143,307	2.43%		\$262,079	\$193,526
2035	1.8	\$115,644	26.74%	\$146,567	2.43%		\$268,042	\$193,365
							\$3,451,092	\$3,025,527

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Social and Community Medical and Health Service Managers SOC: 11-9111)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual wage of director + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.⁶ = Total number of directors x total annual compensation of directors⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Operations Research Analysts SOC: 15-2031)⁸ Median annual wage of director + employer provided fringe benefit percentage of wages⁹ = Total number of data analysts x total annual compensation of data analysts

1F2. Showing Surveillance, Evaluation, and Leadership-

Median Annual Wage of Operations Research Analysts (SOC 15-2031)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$38.64 cle yng
 Annual Hours: 2,080 no data
 Median Annual Wage: \$80,371.20

ECI				
Year	Wage	Growth	Wage	Year
2019	\$80,371.20	2.68%	\$82,524.00	2020
2020	\$82,524.00	2.28%	\$84,401.42	2021
2021	\$84,401.42	2.28%	\$86,321.55	2022
2022	\$86,321.55	2.28%	\$88,285.37	2023
2023	\$88,285.37	2.28%	\$90,293.86	2024
2024	\$90,293.86	2.28%	\$92,348.05	2025
2025	\$92,348.05	2.28%	\$94,448.96	2026
2026	\$94,448.96	2.28%	\$96,597.68	2027
2027	\$96,597.68	2.28%	\$98,795.28	2028
2028	\$98,795.28	2.28%	\$101,042.87	2029
2029	\$101,042.87	2.28%	\$103,341.59	2030
2030	\$103,341.59	2.28%	\$105,692.61	2031
2031	\$105,692.61	2.28%	\$108,097.12	2032
2032	\$108,097.12	2.28%	\$110,556.33	2033
2033	\$110,556.33	2.28%	\$113,071.49	2034
2034	\$113,071.49	2.28%	\$115,643.86	2035
2035	\$115,643.86			

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 4B. Adolescents and Young Adults

4B1. School-Based Prevention Programs

Year	Adolescents to receive prevention programs ¹	Cost per prevention intervention per adolescent ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	8,001	\$69.04		\$552,413	\$552,413
2022	7,658	\$70.61	2.28%	\$540,767	\$538,989
2023	7,315	\$72.22	2.28%	\$528,305	\$524,836
2024	6,972	\$73.86	2.28%	\$514,997	\$509,932
2025	6,629	\$75.54	2.28%	\$500,809	\$494,252
2026	6,287	\$77.26	2.28%	\$485,709	\$453,539
2027	5,944	\$79.02	2.28%	\$469,663	\$432,586
2028	5,601	\$80.82	2.28%	\$452,635	\$411,228
2029	5,258	\$82.66	2.28%	\$434,590	\$389,459
2030	4,915	\$84.54	2.28%	\$415,489	\$367,273
2031	4,572	\$86.46	2.28%	\$395,295	\$313,053
2032	4,229	\$88.43	2.28%	\$373,966	\$289,334
2033	3,886	\$90.44	2.28%	\$351,462	\$265,654
2034	3,543	\$92.50	2.28%	\$327,741	\$242,012
2035	3,200	\$94.60	2.28%	\$302,759	\$218,410
				\$6,646,602	\$6,002,970

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Workers Workers, 2009-2019 Annual Average Percent Change.³ Number of adolescents to receive prevention programs × cost per prevention intervention per adolescent

4A4c. Special Education and Psychosocial Services Interventions for Infants Exposed to Opioids in Utero (6-21 years old)

Interventions for Infants Exposed to Opioids in Utero

Special Education: 6-21 years of age: \$3,858.00

Year	Service of Other Med Prof		Cost	Year
	Cost	Growth		
2020	\$3,858.00	1.28%	\$3,907.27	2021
2021	\$3,907.27	1.28%	\$3,957.16	2022
2022	\$3,957.16	1.28%	\$4,007.70	2023
2023	\$4,007.70	1.28%	\$4,058.87	2024
2024	\$4,058.87	1.28%	\$4,110.71	2025
2025	\$4,110.71	1.28%	\$4,163.20	2026
2026	\$4,163.20	1.28%	\$4,216.36	2027
2027	\$4,216.36	1.28%	\$4,270.21	2028
2028	\$4,270.21	1.28%	\$4,324.74	2029
2029	\$4,324.74	1.28%	\$4,379.96	2030
2030	\$4,379.96	1.28%	\$4,435.90	2031
2031	\$4,435.90	1.28%	\$4,492.54	2032
2032	\$4,492.54	1.28%	\$4,549.91	2033
2033	\$4,549.91	1.28%	\$4,608.01	2034
2034	\$4,608.01	1.28%	\$4,666.86	2035
2035	\$4,666.86	1.28%		

Source: Nancy Young page 12

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Schedule: 1F3. Showing Surveillance, Evaluation, and Leadership-**Number and Compensation of Staff Assistants**

Year	Number of Staff Assistants ¹	Median Wage of Staff Assistants ²	Employer Paid Fringe Benefits ³	Total Compensation of staff assistants ¹¹		Annual cost growth rate ⁵	Total Cost ¹²	Present Value
2021	0.5	\$ 39,108	26.74%	\$ 49,565	2.431%		\$22,661	\$22,661
2022	0.5	\$ 40,059	26.74%	\$ 50,770	2.431%		\$23,212	\$23,136
2023	0.5	\$ 41,032	26.74%	\$ 52,004	2.431%		\$23,776	\$23,620
2024	0.5	\$ 42,030	26.74%	\$ 53,269	2.431%		\$24,354	\$24,115
2025	0.5	\$ 43,052	26.74%	\$ 54,564	2.431%		\$24,947	\$24,620
2026	0.5	\$ 44,098	26.74%	\$ 55,890	2.431%		\$25,553	\$23,861
2027	0.5	\$ 45,170	26.74%	\$ 57,249	2.431%		\$26,174	\$24,108
2028	0.5	\$ 46,268	26.74%	\$ 58,641	2.431%		\$26,810	\$24,358
2029	0.5	\$ 47,393	26.74%	\$ 60,066	2.431%		\$27,462	\$24,610
2030	0.5	\$ 48,545	26.74%	\$ 61,526	2.431%		\$28,130	\$24,865
2031	0.5	\$ 49,725	26.74%	\$ 63,022	2.431%		\$28,814	\$22,819
2032	0.5	\$ 50,934	26.74%	\$ 64,554	2.431%		\$29,514	\$22,835
2033	0.5	\$ 52,172	26.74%	\$ 66,123	2.431%		\$30,232	\$22,851
2034	0.5	\$ 53,441	26.74%	\$ 67,731	2.431%		\$30,967	\$22,866
2035	0.5	\$ 54,740	26.74%	\$ 69,377	2.431%		\$31,719	\$22,882
							\$404,326	\$354,207

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019. economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.¹¹ Median annual wage of staff assistants + employer provided fringe benefit percentage of wages¹² = Total number of staff assistants × median total annual compensation of staff assistants

1F3. Showing Surveillance, Evaluation, and Leadership-

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$17.92
 Annual Hours: 2,080
 Median Annual Wage: \$37,273.60

cle yng
 17.92 15.29

Also Use for Liasons

Year	Wage	ECI Growth	Wage	Year
2019	\$37,273.60	2.43%	\$38,179.72	2020
2020	\$38,179.72	2.43%	\$39,107.87	2021
2021	\$39,107.87	2.43%	\$40,058.58	2022
2022	\$40,058.58	2.43%	\$41,032.41	2023
2023	\$41,032.41	2.43%	\$42,029.90	2024
2024	\$42,029.90	2.43%	\$43,051.65	2025
2025	\$43,051.65	2.43%	\$44,098.24	2026
2026	\$44,098.24	2.43%	\$45,170.27	2027
2027	\$45,170.27	2.43%	\$46,268.35	2028
2028	\$46,268.35	2.43%	\$47,393.14	2029
2029	\$47,393.14	2.43%	\$48,545.27	2030
2030	\$48,545.27	2.43%	\$49,725.40	2031
2031	\$49,725.40	2.43%	\$50,934.23	2032
2032	\$50,934.23	2.43%	\$52,172.44	2033
2033	\$52,172.44	2.43%	\$53,440.75	2034
2034	\$53,440.75	2.43%	\$54,739.89	2035
2035	\$54,739.89	2.43%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A4c. Special Education and Psychosocial Services Interventions for Infants Exposed to Opioids In Utero (6-21 years old)

Year	Number of children eligible for special education and psychosocial services (6-21 years old) ¹	Special education and psychosocial services cost per child (6-21 years old) ⁴	Annual cost growth rate ⁵	Total Cost ⁷	Present Value
2021	0	\$3,907		\$0	\$0
2022	0	\$3,957	1.28%	\$0	\$0
2023	0	\$4,008	1.28%	\$0	\$0
2024	0	\$4,059	1.28%	\$0	\$0
2025	0	\$4,111	1.28%	\$0	\$0
2026	0	\$4,163	1.28%	\$0	\$0
2027	9	\$4,216	1.28%	\$39,328	\$36,223
2028	18	\$4,270	1.28%	\$77,872	\$70,748
2029	27	\$4,325	1.28%	\$115,665	\$103,653
2030	35	\$4,380	1.28%	\$152,737	\$135,013
2031	43	\$4,436	1.28%	\$189,119	\$149,773
2032	50	\$4,493	1.28%	\$224,840	\$173,957
2033	57	\$4,550	1.28%	\$259,928	\$196,467
2034	64	\$4,608	1.28%	\$294,411	\$217,401
2035	70	\$4,667	1.28%	\$328,316	\$236,847
				\$1,682,217	\$1,320,082

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ = Nancy Young, Ph.D. Report, see Page 12⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁷ = Total number of children eligible for special education and psychosocial services (6-21 years old) × special education and psychosocial services cost per child (6-21 years old)

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4A4b. Early Interventions for Infants Exposed to Opioids in Utero (0-5 years old)

Interventions for Infants Exposed to Opioids in Utero

Early Intervention: 0-5 years of age: \$1,300.00

CPI				
Service				
Other				
Med Prof				
Year	Cost	Growth	Cost	Year
2020	\$1,300.00	1.28%	\$1,316.60	2021
2021	\$1,316.60	1.28%	\$1,333.41	2022
2022	\$1,333.41	1.28%	\$1,350.44	2023
2023	\$1,350.44	1.28%	\$1,367.69	2024
2024	\$1,367.69	1.28%	\$1,385.15	2025
2025	\$1,385.15	1.28%	\$1,402.84	2026
2026	\$1,402.84	1.28%	\$1,420.75	2027
2027	\$1,420.75	1.28%	\$1,438.90	2028
2028	\$1,438.90	1.28%	\$1,457.27	2029
2029	\$1,457.27	1.28%	\$1,475.88	2030
2030	\$1,475.88	1.28%	\$1,494.73	2031
2031	\$1,494.73	1.28%	\$1,513.82	2032
2032	\$1,513.82	1.28%	\$1,533.15	2033
2033	\$1,533.15	1.28%	\$1,552.73	2034
2034	\$1,552.73	1.28%	\$1,572.55	2035
2035	\$1,572.55	1.28%		

Source: Nancy Young page 12

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Schedule: 1F4. Showing Surveillance, Evaluation, and Leadership-
Number and Compensation of Managers

Year	Number of Managers ¹	Median Wage of Managers ¹⁰	Employer Paid Fringe Benefits ³	Total Compensation of Managers ¹¹	Annual cost growth rate ⁵	Total	
						Total Cost ¹²	Present Value
2021	0.5	\$ 106,485	26.74%	\$ 134,959	2.431%	\$61,703	\$61,703
2022	0.5	\$ 108,907	26.74%	\$ 138,029	2.431%	\$63,107	\$62,899
2023	0.5	\$ 111,385	26.74%	\$ 141,169	2.431%	\$64,543	\$64,119
2024	0.5	\$ 113,919	26.74%	\$ 144,381	2.431%	\$66,011	\$65,362
2025	0.5	\$ 116,511	26.74%	\$ 147,665	2.431%	\$67,513	\$66,629
2026	0.5	\$ 119,161	26.74%	\$ 151,025	2.431%	\$69,049	\$64,475
2027	0.5	\$ 121,872	26.74%	\$ 154,461	2.431%	\$70,619	\$65,044
2028	0.5	\$ 124,645	26.74%	\$ 157,975	2.431%	\$72,226	\$65,619
2029	0.5	\$ 127,480	26.74%	\$ 161,569	2.431%	\$73,869	\$66,198
2030	0.5	\$ 130,381	26.74%	\$ 165,244	2.431%	\$75,550	\$66,782
2031	0.5	\$ 133,347	26.74%	\$ 169,004	2.431%	\$77,268	\$61,193
2032	0.5	\$ 136,380	26.74%	\$ 172,848	2.431%	\$79,026	\$61,142
2033	0.5	\$ 139,483	26.74%	\$ 176,781	2.431%	\$80,824	\$61,091
2034	0.5	\$ 142,656	26.74%	\$ 180,802	2.431%	\$82,663	\$61,040
2035	0.5	\$ 145,902	26.74%	\$ 184,916	2.431%	\$84,543	\$60,990
						\$1,088,514	\$954,286

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019.

economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Health Service Managers SOC: 11-9111)¹¹ Median annual wage of Managers + employer provided fringe benefit percentage of wages¹² = Total number of Managers x median total annual compensation of Managers.

1F4. Showing Surveillance, Evaluation, and Leadership-

Median Annual Wage of Medical and Health Service Managers (SOC 11-9111)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$48.75 cle yng 42.43
 Annual Hours: 2,080
 Median Annual Wage: \$101,400.00

Year	Wage	Growth	Wage	Year
2019	\$101,400.00	2.68%	\$104,116.07	2020
2020	\$104,116.07	2.28%	\$106,484.71	2021
2021	\$106,484.71	2.28%	\$108,907.24	2022
2022	\$108,907.24	2.28%	\$111,384.88	2023
2023	\$111,384.88	2.28%	\$113,918.88	2024
2024	\$113,918.88	2.28%	\$116,510.54	2025
2025	\$116,510.54	2.28%	\$119,161.15	2026
2026	\$119,161.15	2.28%	\$121,872.07	2027
2027	\$121,872.07	2.28%	\$124,644.66	2028
2028	\$124,644.66	2.28%	\$127,480.33	2029
2029	\$127,480.33	2.28%	\$130,380.50	2030
2030	\$130,380.50	2.28%	\$133,346.66	2031
2031	\$133,346.66	2.28%	\$136,380.30	2032
2032	\$136,380.30	2.28%	\$139,482.95	2033
2033	\$139,482.95	2.28%	\$142,656.19	2034
2034	\$142,656.19	2.28%	\$145,901.61	2035
2035	\$145,901.61			

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A4b. Early Interventions for Infants Exposed to Opioids In Utero (0-5 years old)

Year	Number of children eligible for early intervention (0-5 years old) ¹	Early intervention cost per child (0-5 years old) ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	62	\$1,317		\$81,352	\$81,352
2022	121	\$1,333	1.28%	\$161,083	\$160,553
2023	177	\$1,350	1.28%	\$239,260	\$237,688
2024	231	\$1,368	1.28%	\$315,946	\$312,839
2025	282	\$1,385	1.28%	\$391,205	\$386,083
2026	332	\$1,403	1.28%	\$465,096	\$434,291
2027	317	\$1,421	1.28%	\$449,890	\$414,375
2028	302	\$1,439	1.28%	\$435,182	\$395,371
2029	289	\$1,457	1.28%	\$420,955	\$377,240
2030	276	\$1,476	1.28%	\$407,193	\$359,939
2031	264	\$1,495	1.28%	\$393,880	\$311,933
2032	252	\$1,514	1.28%	\$381,003	\$294,778
2033	240	\$1,533	1.28%	\$368,547	\$278,567
2034	230	\$1,553	1.28%	\$356,498	\$263,247
2035	219	\$1,573	1.28%	\$344,843	\$248,770
				\$5,211,934	\$4,557,027

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ = Nancy Young, Ph.D. Report, see Page 12⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁶ = Total number of children eligible for early intervention (0-5 years old) × early intervention cost per child (0-5 years old)

4A4a. Interventions for Infants Exposed to Opioids in Utero

Neonatal Abstinence Syndrome Medical Costs Per Infnat

Monument Analytics

Source #1: Loudin et al.:	\$23,105.50 in 2015 dollars
	+ 3.79% = 2016 TMC
	\$23,981.20 in 2016 dollars
Source #2: HCUP:	\$24,340.60 in 2016 dollars
Source #3: Miliren et al.:	\$37,584.00 in 2016 dollars
	\$28,635.27 Average in 2016 dollars

CPI Med Care				
Year	Cost	Growth	Wage	Year
2016	\$28,635.27	4.07%	\$29,801.87	2017
2017	\$29,801.87	1.78%	\$30,332.34	2018
2018	\$30,332.34	2.01%	\$30,942.32	2019
2019	\$30,942.32	4.57%	\$32,356.70	2020
2020	\$32,356.70	2.99%	\$33,325.13	2021
2021	\$33,325.13	2.99%	\$34,322.55	2022
2022	\$34,322.55	2.99%	\$35,349.83	2023
2023	\$35,349.83	2.99%	\$36,407.85	2024
2024	\$36,407.85	2.99%	\$37,497.54	2025
2025	\$37,497.54	2.99%	\$38,619.84	2026
2026	\$38,619.84	2.99%	\$39,775.73	2027
2027	\$39,775.73	2.99%	\$40,966.22	2028
2028	\$40,966.22	2.99%	\$42,192.33	2029
2029	\$42,192.33	2.99%	\$43,455.15	2030
2030	\$43,455.15	2.99%	\$44,755.76	2031
2031	\$44,755.76	2.99%	\$46,095.30	2032
2032	\$46,095.30	2.99%	\$47,474.94	2033
2033	\$47,474.94	2.99%	\$48,895.86	2034
2034	\$48,895.86	2.99%	\$50,359.31	2035
2035	\$50,359.31	2.99%		

Source: Alexander

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Schedule: 1F5. Showing Surveillance, Evaluation, and Leadership-
Number and Compensation of Community Liasons

Year	Number of Managers ¹	Median Wage of Liasons ⁴	Employer Paid Fringe Benefits ³	Total Compensation of Liasons ¹¹	Annual cost growth rate ¹⁰	Total Cost ¹²		Present Value
2021	0.5	\$ 39,108	26.74%	\$ 49,565	2.431%	\$22,661		\$22,661
2022	0.5	\$ 40,059	26.74%	\$ 50,770	2.431%	\$23,212		\$23,136
2023	0.5	\$ 41,032	26.74%	\$ 52,004	2.431%	\$23,776		\$23,620
2024	0.5	\$ 42,030	26.74%	\$ 53,269	2.431%	\$24,354		\$24,115
2025	0.5	\$ 43,052	26.74%	\$ 54,564	2.431%	\$24,947		\$24,620
2026	0.5	\$ 44,098	26.74%	\$ 55,890	2.431%	\$25,553		\$23,861
2027	0.5	\$ 45,170	26.74%	\$ 57,249	2.431%	\$26,174		\$24,108
2028	0.5	\$ 46,268	26.74%	\$ 58,641	2.431%	\$26,810		\$24,358
2029	0.5	\$ 47,393	26.74%	\$ 60,066	2.431%	\$27,462		\$24,610
2030	0.5	\$ 48,545	26.74%	\$ 61,526	2.431%	\$28,130		\$24,865
2031	0.5	\$ 49,725	26.74%	\$ 63,022	2.431%	\$28,814		\$22,819
2032	0.5	\$ 50,934	26.74%	\$ 64,554	2.431%	\$29,514		\$22,835
2033	0.5	\$ 52,172	26.74%	\$ 66,123	2.431%	\$30,232		\$22,851
2034	0.5	\$ 53,441	26.74%	\$ 67,731	2.431%	\$30,967		\$22,866
2035	0.5	\$ 54,740	26.74%	\$ 69,377	2.431%	\$31,719		\$22,882
						\$404,326		\$354,207

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019. economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ Median annual wage of Liasons + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics:

CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014) used for Liasons.

¹¹ Median annual wage of Liasons + employer provided fringe benefit percentage of wages¹² = Total number of Liasons x median total annual compensation of Liasons.

1F3. Showing Surveillance, Evaluation, and Leadership-

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014) used for
Number and Compensation of Community Liasons

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$17.92	cle	yng	15.29
Annual Hours:	2,080			
Median Annual Wage:	\$37,273.60			

Also Use for Liasons

Year	Wage	ECI Growth	Wage	Year
2019	\$37,273.60	2.43%	\$38,179.72	2020
2020	\$38,179.72	2.43%	\$39,107.87	2021
2021	\$39,107.87	2.43%	\$40,058.58	2022
2022	\$40,058.58	2.43%	\$41,032.41	2023
2023	\$41,032.41	2.43%	\$42,029.90	2024
2024	\$42,029.90	2.43%	\$43,051.65	2025
2025	\$43,051.65	2.43%	\$44,098.24	2026
2026	\$44,098.24	2.43%	\$45,170.27	2027
2027	\$45,170.27	2.43%	\$46,268.35	2028
2028	\$46,268.35	2.43%	\$47,393.14	2029
2029	\$47,393.14	2.43%	\$48,545.27	2030
2030	\$48,545.27	2.43%	\$49,725.40	2031
2031	\$49,725.40	2.43%	\$50,934.23	2032
2032	\$50,934.23	2.43%	\$52,172.44	2033
2033	\$52,172.44	2.43%	\$53,440.75	2034
2034	\$53,440.75	2.43%	\$54,739.89	2035
2035	\$54,739.89	2.43%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A4a. Interventions for Infants Exposed to Opioids In Utero

Year	Number of Infants diagnosed with NAS ¹	(NAS) Medical Costs Per Case ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	48	\$33,325		\$1,610,557	\$1,610,557
2022	46	\$34,323	2.99%	\$1,584,299	\$1,579,088
2023	44	\$35,350	2.99%	\$1,558,470	\$1,548,235
2024	42	\$36,408	2.99%	\$1,533,062	\$1,517,984
2025	40	\$37,498	2.99%	\$1,508,068	\$1,488,325
2026	38	\$38,620	2.99%	\$1,483,482	\$1,385,227
2027	37	\$39,776	2.99%	\$1,459,297	\$1,344,095
2028	35	\$40,966	2.99%	\$1,435,505	\$1,304,184
2029	33	\$42,192	2.99%	\$1,412,102	\$1,265,458
2030	32	\$43,455	2.99%	\$1,389,080	\$1,227,882
2031	31	\$44,756	2.99%	\$1,366,434	\$1,082,146
2032	29	\$46,095	2.99%	\$1,344,157	\$1,039,960
2033	28	\$47,475	2.99%	\$1,322,243	\$999,420
2034	27	\$48,896	2.99%	\$1,300,686	\$960,459
2035	25	\$50,359	2.99%	\$1,279,481	\$923,017
				\$21,586,923	\$19,276,037

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U)

, U.S. City Average -- Total Medical Care. 2009-2019 Annual Average Percent Change

³ Number of Infants diagnosed with NAS x NAS medical costs per infant case

4A3. Prenatal and Postpartum Housing Services

Monthly Cost: \$1,430.67 in 2006 dollars
 x 12 months = \$17,168.00 Columbus, Ohio

CPI Rent of Shelter Rent				
Year	Cost	Growth	Wage	Year
2006	\$17,168.00	4.26%	\$17,898.50	2007
2007	\$17,898.50	3.13%	\$18,458.72	2008
2008	\$18,458.72	1.94%	\$18,816.64	2009
2009	\$18,816.64	0.29%	\$18,870.45	2010
2010	\$18,870.45	0.43%	\$18,951.97	2011
2011	\$18,951.97	1.90%	\$19,311.68	2012
2012	\$19,311.68	2.19%	\$19,734.03	2013
2013	\$19,734.03	2.54%	\$20,234.88	2014
2014	\$20,234.88	2.87%	\$20,816.02	2015
2015	\$20,816.02	3.23%	\$21,488.38	2016
2016	\$21,488.38	3.66%	\$22,273.99	2017
2017	\$22,273.99	3.23%	\$22,993.44	2018
2018	\$22,993.44	3.22%	\$23,732.98	2019
2019	\$23,732.98	3.28%	\$24,511.68	2020
2020	\$24,511.68	2.65%	\$10,710.53	2021
2021	\$10,710.53	2.65%	\$10,994.36	2022
2022	\$10,994.36	2.65%	\$11,285.71	2023
2023	\$11,285.71	2.65%	\$11,584.78	2024
2024	\$11,584.78	2.65%	\$11,891.78	2025
2025	\$11,891.78	2.65%	\$12,206.91	2026
2026	\$12,206.91	2.65%	\$12,530.39	2027
2027	\$12,530.39	2.65%	\$12,862.45	2028
2028	\$12,862.45	2.65%	\$13,203.30	2029
2029	\$13,203.30	2.65%	\$13,553.19	2030
2030	\$13,553.19	2.65%	\$13,912.35	2031
2031	\$13,912.35	2.65%	\$14,281.03	2032
2032	\$14,281.03	2.65%	\$14,659.47	2033
2033	\$14,659.47	2.65%	\$15,047.95	2034
2034	\$15,047.95	2.65%	\$15,446.72	2035
2035	\$15,446.72	2.65%		

Testing a Typology of Family Homelessness Based on a Pattern

Culhane, Metraux, Park, Schretzman and Valente., Housing Policy Debate, Volume 18, Issue 1, May 2007.
 of Public Shelter Utilization in Four US Jurisdictions: Implications for Policy and Program Planning.

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Lake Exhibit 1-2

Category 2: Treatment –Supporting Individuals Affected by the Epidemic

- 2A. Connecting Individuals to Care
- 2B. Treating Opioid Use Disorder
- 2C. Managing Complications Attributable to the Epidemic
- 2D. Workforce Expansion and Resiliency
- 2E. Distributing Naloxone and Providing Training

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Schi 2A. Showing Connecting Individuals to Care 2021-2035

2A1. Helpline

Year	Number of helpline staff members ¹	Median Wage Crisis Intervention Specialist ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Cost growth rate ⁵	Total Cost ⁶	Present Value
2021	3.0	\$41,201	26.74%	\$52,218		\$156,653	\$156,653
2022	3.0	\$42,012	26.74%	\$53,246	1.97%	\$159,739	\$159,213
2023	3.0	\$42,840	26.74%	\$54,295	1.97%	\$162,886	\$161,816
2024	3.0	\$43,684	26.74%	\$55,365	1.97%	\$166,095	\$164,461
2025	3.0	\$44,544	26.74%	\$56,456	1.97%	\$169,367	\$167,149
2026	3.0	\$45,422	26.74%	\$57,568	1.97%	\$172,703	\$161,264
2027	3.0	\$46,317	26.74%	\$58,702	1.97%	\$176,105	\$162,203
2028	3.0	\$47,229	26.74%	\$59,858	1.97%	\$179,575	\$163,147
2029	3.0	\$48,160	26.74%	\$61,037	1.97%	\$183,112	\$164,096
2030	3.0	\$49,108	26.74%	\$62,240	1.97%	\$186,720	\$165,051
2031	3.0	\$50,076	26.74%	\$63,466	1.97%	\$190,398	\$150,785
2032	3.0	\$51,062	26.74%	\$64,716	1.97%	\$194,149	\$150,211
2033	3.0	\$52,068	26.74%	\$65,991	1.97%	\$197,974	\$149,639
2034	3.0	\$53,094	26.74%	\$67,291	1.97%	\$201,874	\$149,069
2035	3.0	\$54,140	26.74%	\$68,617	1.97%	\$205,851	\$148,501
						\$2,703,198	\$2,373,259

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics:

CLE & YNG Metropolitan Statistical Areas. May 2019 (Mental Health and Substance Abuse Social Workers SOC: 21-1023)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = Median annual licensed clinical social worker wage + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private, Industry Workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change⁶ = Total number of helpline staff members × total annual compensation of helpline staff members

Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A3. Prenatal and Postpartum Housing Services

Year	Number of new mothers with OUD to receive housing services ¹	Housing services cost per mother ⁸	Annual cost growth rate ⁹	Total Cost ¹⁰	Present Value
2021	26	\$10,711		\$275,703	\$275,703
2022	25	\$10,994	2.65%	\$270,305	\$269,416
2023	23	\$11,286	2.65%	\$265,013	\$263,272
2024	22	\$11,585	2.65%	\$259,824	\$257,269
2025	21	\$11,892	2.65%	\$254,737	\$251,402
2026	20	\$12,207	2.65%	\$249,749	\$233,208
2027	20	\$12,530	2.65%	\$244,860	\$225,529
2028	19	\$12,862	2.65%	\$240,065	\$218,104
2029	18	\$13,203	2.65%	\$235,365	\$210,923
2030	17	\$13,553	2.65%	\$230,757	\$203,978
2031	16	\$13,912	2.65%	\$226,239	\$179,170
2032	16	\$14,281	2.65%	\$221,809	\$171,612
2033	15	\$14,659	2.65%	\$217,466	\$164,372
2034	14	\$15,048	2.65%	\$213,209	\$157,439
2035	14	\$15,447	2.65%	\$209,034	\$150,797
				\$3,614,136	\$3,232,194

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁸ Culhane, Metraux et al, Costs associated with Family Homelessness

In Columbus Ohio, Housing Policy Debate, Volume 18, Issue 1, May 2007. Average of all stays.

⁹ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (Rent of Shelter) 2009-2019 Annual Average Percent Change¹⁰ = Number of new mothers with OUD to receive housing services × housing services cost per mother

4A2b. Postpartum Psychosocial Services
 Postpartum Psychosocial Services for Mothers

Total Med Care				
Year	Cost	Growth	Cost	Year
2020	\$8,736.00	2.99%	\$8,997.47	2021
2021	\$8,997.47	2.99%	\$9,266.76	2022
2022	\$9,266.76	2.99%	\$9,544.12	2023
2023	\$9,544.12	2.99%	\$9,829.77	2024
2024	\$9,829.77	2.99%	\$10,123.98	2025
2025	\$10,123.98	2.99%	\$10,426.99	2026
2026	\$10,426.99	2.99%	\$10,739.07	2027
2027	\$10,739.07	2.99%	\$11,060.49	2028
2028	\$11,060.49	2.99%	\$11,391.53	2029
2029	\$11,391.53	2.99%	\$11,732.48	2030
2030	\$11,732.48	2.99%	\$12,083.63	2031
2031	\$12,083.63	2.99%	\$12,445.29	2032
2032	\$12,445.29	2.99%	\$12,817.78	2033
2033	\$12,817.78	2.99%	\$13,201.42	2034
2034	\$13,201.42	2.99%	\$13,596.54	2035
2035	\$13,596.54	2.99%		

Source: Nancy Young page 8.

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1F5. Showing Surveillance, Evaluation, and Leadership-
 Substance Abuse Social Worker

Median Annual Wage of Licensed Clinical Social Worker-Level Staff
 Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)
 CLE MSA & YNG MSA, May 2019

Median Hourly Wage: \$19.05
 Annual Hours: 2,080
 Median Annual Wage: \$39,624.00

cle yng
 \$ 19.05 \$ 18.35

ECI Prof Wkrs				
Year	Wage	Growth	Wage	Year
2019	\$39,624.00	1.97%	\$40,404.59	2020
2020	\$40,404.59	1.97%	\$41,200.56	2021
2021	\$41,200.56	1.97%	\$42,012.21	2022
2022	\$42,012.21	1.97%	\$42,839.85	2023
2023	\$42,839.85	1.97%	\$43,683.80	2024
2024	\$43,683.80	1.97%	\$44,544.37	2025
2025	\$44,544.37	1.97%	\$45,421.90	2026
2026	\$45,421.90	1.97%	\$46,316.71	2027
2027	\$46,316.71	1.97%	\$47,229.15	2028
2028	\$47,229.15	1.97%	\$48,159.56	2029
2029	\$48,159.56	1.97%	\$49,108.30	2030
2030	\$49,108.30	1.97%	\$50,075.74	2031
2031	\$50,075.74	1.97%	\$51,062.23	2032
2032	\$51,062.23	1.97%	\$52,068.15	2033
2033	\$52,068.15	1.97%	\$53,093.90	2034
2034	\$53,093.90	1.97%	\$54,139.85	2035
2035	\$54,139.85	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Sch 2A. Showing Connecting Individuals to Care 2021-2035

2A2. Peer Recovery Coaches

Year	Number of Peer Recovery Coaches ¹	Median annual wage of Peer Coach ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual Growth rate ⁵	Total Cost ⁶	Present Value
2021	10	\$19,465	26.74%	\$24,670	1.97%	\$246,697	\$246,697
2022	10	\$19,848	26.74%	\$25,156	1.97%	\$251,557	\$250,730
2023	10	\$20,239	26.74%	\$25,651	1.97%	\$256,513	\$254,828
2024	10	\$20,638	26.74%	\$26,157	1.97%	\$261,566	\$258,994
2025	10	\$21,045	26.74%	\$26,672	1.97%	\$266,719	\$263,227
2026	10	\$21,459	26.74%	\$27,197	1.97%	\$271,973	\$253,960
2027	10	\$21,882	26.74%	\$27,733	1.97%	\$277,331	\$255,438
2028	10	\$22,313	26.74%	\$28,279	1.97%	\$282,795	\$256,924
2029	10	\$22,753	26.74%	\$28,837	1.97%	\$288,366	\$258,420
2030	10	\$23,201	26.74%	\$29,405	1.97%	\$294,047	\$259,924
2031	10	\$23,658	26.74%	\$29,984	1.97%	\$299,839	\$237,457
2032	10	\$24,124	26.74%	\$30,575	1.97%	\$305,746	\$236,553
2033	10	\$24,599	26.74%	\$31,177	1.97%	\$311,769	\$235,651
2034	10	\$25,084	26.74%	\$31,791	1.97%	\$317,911	\$234,754
2035	10	\$25,578	26.74%	\$32,417	1.97%	\$324,174	\$233,859
						\$4,257,005	\$3,737,416

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas, May 2019 (Mental Health and Substance Abuse Social Workers SOC: 21-1023)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private, Industry Workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change⁵ Assumed \$9.00 per hour.⁶ Median annual wage of peer recovery coach + employer provided fringe benefit percentage of wages⁷ = Total number of peer recovery coaches x total annual compensation of peer recovery coaches

Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A2b. Postpartum Psychosocial Services

Year	Number of new mothers with OUD to receive postpartum psychosocial services ¹	Postpartum psychosocial services cost per woman ⁴	Annual cost growth rate ⁵	Total Cost ⁷	Present Value
2021	0	\$8,997		\$0	\$0
2022	64	\$9,267	2.99%	\$596,347	\$594,386
2023	126	\$9,544	2.99%	\$1,200,820	\$1,192,934
2024	185	\$9,830	2.99%	\$1,813,822	\$1,795,983
2025	241	\$10,124	2.99%	\$2,435,762	\$2,403,874
2026	294	\$10,427	2.99%	\$3,067,063	\$2,863,923
2027	281	\$10,739	2.99%	\$3,017,060	\$2,778,883
2028	268	\$11,060	2.99%	\$2,967,873	\$2,696,368
2029	256	\$11,392	2.99%	\$2,919,487	\$2,616,304
2030	245	\$11,732	2.99%	\$2,871,890	\$2,538,617
2031	234	\$12,084	2.99%	\$2,825,069	\$2,237,311
2032	223	\$12,445	2.99%	\$2,779,011	\$2,150,093
2033	213	\$12,818	2.99%	\$2,733,705	\$2,066,276
2034	204	\$13,201	2.99%	\$2,689,136	\$1,985,726
2035	195	\$13,597	2.99%	\$2,645,295	\$1,908,316
				\$34,562,340	\$29,828,992

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ = Nancy Young, Ph.D. Report, see Page 8⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Total Medical Care. 2009-2019 Annual Average Percent Change⁷ = Number of new mothers with OUD to receive postpartum psychosocial services x postpartum psychosocial services cost per woman

4A2a. Prenatal Psychosocial Services**Prenatal Psychosocial Services for Mothers**

Total Med Care				
Year	Cost	Growth	Cost	Year
2020	\$2,934.00	2.99%	\$3,021.81	2021
2021	\$3,021.81	2.99%	\$3,112.26	2022
2022	\$3,112.26	2.99%	\$3,205.41	2023
2023	\$3,205.41	2.99%	\$3,301.35	2024
2024	\$3,301.35	2.99%	\$3,400.15	2025
2025	\$3,400.15	2.99%	\$3,501.92	2026
2026	\$3,501.92	2.99%	\$3,606.73	2027
2027	\$3,606.73	2.99%	\$3,714.68	2028
2028	\$3,714.68	2.99%	\$3,825.86	2029
2029	\$3,825.86	2.99%	\$3,940.37	2030
2030	\$3,940.37	2.99%	\$4,058.31	2031
2031	\$4,058.31	2.99%	\$4,179.77	2032
2032	\$4,179.77	2.99%	\$4,304.87	2033
2033	\$4,304.87	2.99%	\$4,433.72	2034
2034	\$4,433.72	2.99%	\$4,566.42	2035
2035	\$4,566.42	2.99%		

Source: Nancy Young

Report Page 169 of 232**2A2. Peer Recovery Coaches****Median Annual Wage of Peer Recovery Coaches**

Hourly Wage: \$9.00
 Annual Hours: 2,080
 Median Annual Wage: \$18,720.00

ECI Health Wkr				
Year	Wage	Growth	Wage	Year
2019	\$18,720.00	1.97%	\$19,088.78	2020
2020	\$19,088.78	1.97%	\$19,464.83	2021
2021	\$19,464.83	1.97%	\$19,848.29	2022
2022	\$19,848.29	1.97%	\$20,239.30	2023
2023	\$20,239.30	1.97%	\$20,638.02	2024
2024	\$20,638.02	1.97%	\$21,044.58	2025
2025	\$21,044.58	1.97%	\$21,459.16	2026
2026	\$21,459.16	1.97%	\$21,881.91	2027
2027	\$21,881.91	1.97%	\$22,312.98	2028
2028	\$22,312.98	1.97%	\$22,752.55	2029
2029	\$22,752.55	1.97%	\$23,200.77	2030
2030	\$23,200.77	1.97%	\$23,657.83	2031
2031	\$23,657.83	1.97%	\$24,123.89	2032
2032	\$24,123.89	1.97%	\$24,599.13	2033
2033	\$24,599.13	1.97%	\$25,083.73	2034
2034	\$25,083.73	1.97%	\$25,577.88	2035
2035	\$25,577.88	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Sch 2A. Showing Connecting Individuals to Care 2021-2035

2A3. Transportation Assistance

Year	Total transportation vouchers needed ¹	Bus Fare ¹⁰	Annual cost growth rate ¹¹	Total Estimated Cost ¹²	Present Value
2021	55,666	\$3.50		\$194,831	\$194,831
2022	58,999	\$3.51	0.23%	\$206,973	\$206,292
2023	62,180	\$3.52	0.23%	\$218,633	\$217,197
2024	65,204	\$3.52	0.23%	\$229,793	\$227,533
2025	68,068	\$3.53	0.23%	\$240,436	\$237,289
2026	70,768	\$3.54	0.23%	\$250,551	\$233,956
2027	73,305	\$3.55	0.23%	\$260,129	\$239,594
2028	75,677	\$3.56	0.23%	\$269,165	\$244,542
2029	77,886	\$3.56	0.23%	\$277,657	\$248,822
2030	79,931	\$3.57	0.23%	\$285,604	\$252,460
2031	81,815	\$3.58	0.23%	\$293,008	\$252,048
2032	83,541	\$3.59	0.23%	\$299,876	\$252,011
2033	85,110	\$3.60	0.23%	\$306,211	\$251,450
2034	86,526	\$3.61	0.23%	\$312,023	\$250,406
2035	87,793	\$3.61	0.23%	\$317,320	\$228,915
				\$3,962,210	\$3,457,346

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D¹⁰ LakeTran Public Transportation (Lake County Ohio) & Trumbell County Ohio Public Transportation. Fares are roundtrip.¹¹ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index,

All Urban Consumers (CPI-U), U.S. City Average -- Public Transportation. 2009-2019 Annual Average Percent Change

¹² = Total annual number needing transportation x bus fare

Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A2a. Prenatal Psychosocial Services

Year	Number of pregnant women with OUD / new mothers with OUD to receive prenatal psychosocial services ¹	Prenatal psychosocial services cost per woman ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	64	\$3,022		\$194,464	\$194,464
2022	61	\$3,112	2.99%	\$191,293	\$190,664
2023	59	\$3,205	2.99%	\$188,175	\$186,939
2024	56	\$3,301	2.99%	\$185,107	\$183,286
2025	54	\$3,400	2.99%	\$182,089	\$179,705
2026	51	\$3,502	2.99%	\$179,120	\$167,257
2027	49	\$3,607	2.99%	\$176,200	\$162,290
2028	47	\$3,715	2.99%	\$173,328	\$157,471
2029	45	\$3,826	2.99%	\$170,502	\$152,796
2030	43	\$3,940	2.99%	\$167,722	\$148,259
2031	41	\$4,058	2.99%	\$164,988	\$130,662
2032	39	\$4,180	2.99%	\$162,298	\$125,568
2033	37	\$4,305	2.99%	\$159,652	\$120,673
2034	35	\$4,434	2.99%	\$157,049	\$115,969
2035	34	\$4,566	2.99%	\$154,489	\$111,448
				\$2,606,475	\$2,327,451

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ = Nancy Young, Ph.D. Report, see Page 8⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index,

All Urban Consumers (CPI-U), U.S. City Average -- Total Medical Care. 2009-2019 Annual Average Percent Change

⁶ Number of pregnant women with OUD new mothers with OUD to receive prenatal psychosocial services x prenatal psychosocial services cost per woman

4A1. Prenatal OUD Screening

Prenatal OUD Screening

Monument Analytics

Total Testing Costs \$63.50 2017

Medical Care Services				
Year	Cost	Growth	Wage	Year
2017	\$63.50	1.64%	\$64.54	2018
2018	\$64.54	2.64%	\$66.25	2019
2019	\$66.25	5.09%	\$69.62	2020
2020	\$69.62	3.18%	\$71.83	2021
2021	\$71.83	3.18%	\$74.11	2022
2022	\$74.11	3.18%	\$76.47	2023
2023	\$76.47	3.18%	\$78.90	2024
2024	\$78.90	3.18%	\$81.41	2025
2025	\$81.41	3.18%	\$84.00	2026
2026	\$84.00	3.18%	\$86.68	2027
2027	\$86.68	3.18%	\$89.43	2028
2028	\$89.43	3.18%	\$92.28	2029
2029	\$92.28	3.18%	\$95.21	2030
2030	\$95.21	3.18%	\$98.24	2031
2031	\$98.24	3.18%	\$101.37	2032
2032	\$101.37	3.18%	\$104.59	2033
2033	\$104.59	3.18%	\$107.92	2034
2034	\$107.92	3.18%	\$111.35	2035
2035	\$111.35	3.18%	\$114.89	2036

Source: Alexander

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2A3. Transportation Assistance

Laketran and Trumbell County Bus Fares

Bus Fares

\$1.75 per ticket
\$3.50 Round Trip

CPI Pub Transp				
Year	Fare	Growth	Fare	Year
2020	\$3.50	0.00%	\$3.50	2021
2021	\$3.50	0.23%	\$3.51	2022
2022	\$3.51	0.23%	\$3.52	2023
2023	\$3.52	0.23%	\$3.52	2024
2024	\$3.52	0.23%	\$3.53	2025
2025	\$3.53	0.23%	\$3.54	2026
2026	\$3.54	0.23%	\$3.55	2027
2027	\$3.55	0.23%	\$3.56	2028
2028	\$3.56	0.23%	\$3.56	2029
2029	\$3.56	0.23%	\$3.57	2030
2030	\$3.57	0.23%	\$3.58	2031
2031	\$3.58	0.23%	\$3.59	2032
2032	\$3.59	0.23%	\$3.60	2033
2033	\$3.60	0.23%	\$3.61	2034
2034	\$3.61	0.23%	\$3.61	2035
2035	\$3.61			

Source: LakeTran Published Rates - Used for Both MSA's

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Schedule 2A. Showing Connecting Individuals to Care Quick response Team

2A4.1 Quick Response Team (QRT) Additions Counselor

Year	Number of Additions Counselors ¹	Median Wage ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.3	\$48,359	26.74%	\$61,291		\$21,320	\$21,320
2022	0.3	\$49,312	26.74%	\$62,498	1.97%	\$20,764	\$20,696
2023	0.3	\$50,283	26.74%	\$63,729	1.97%	\$20,223	\$20,090
2024	0.3	\$51,274	26.74%	\$64,985	1.97%	\$19,695	\$19,502
2025	0.3	\$52,284	26.74%	\$66,265	1.97%	\$19,182	\$18,931
2026	0.3	\$53,314	26.74%	\$67,570	1.97%	\$18,682	\$17,444
2027	0.3	\$54,364	26.74%	\$68,901	1.97%	\$18,194	\$16,758
2028	0.3	\$55,435	26.74%	\$70,259	1.97%	\$17,720	\$16,099
2029	0.2	\$56,527	26.74%	\$71,643	1.97%	\$17,258	\$15,466
2030	0.2	\$57,641	26.74%	\$73,054	1.97%	\$16,808	\$14,858
2031	0.2	\$58,777	26.74%	\$74,493	1.97%	\$16,370	\$12,964
2032	0.2	\$59,934	26.74%	\$75,961	1.97%	\$15,943	\$12,335
2033	0.2	\$61,115	26.74%	\$77,457	1.97%	\$15,527	\$11,736
2034	0.2	\$62,319	26.74%	\$78,983	1.97%	\$15,122	\$11,167
2035	0.2	\$63,547	26.74%	\$80,539	1.97%	\$14,728	\$10,625
						\$267,536	\$239,989

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG OH, Metropolitan Statistical Area. May 2019 (Substance Abuse, Behavioral Disorder, and Mental Health Counselors SOC: 21-1018)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual wage of additions counselor + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private Industry workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change⁶ = Total number of additions counselor × total annual compensation of additions counselors

Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A1. Prenatal OUD Screening

Year	Number of pregnant women for prenatal screening ¹	Prenatal screening cost per woman ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	2,099	\$71.83		\$150,770	\$150,770
2022	2,099	\$74.11	2.99%	\$155,566	\$155,055
2023	2,099	\$76.47	2.99%	\$160,515	\$159,461
2024	2,099	\$78.90	2.99%	\$165,621	\$163,992
2025	2,099	\$81.41	2.99%	\$170,889	\$168,652
2026	2,099	\$84.00	2.99%	\$176,325	\$164,647
2027	2,099	\$86.68	2.99%	\$181,934	\$167,572
2028	2,099	\$89.43	2.99%	\$187,721	\$170,549
2029	2,099	\$92.28	2.99%	\$193,693	\$173,578
2030	2,099	\$95.21	2.99%	\$199,854	\$176,662
2031	2,099	\$98.24	2.99%	\$206,212	\$163,309
2032	2,099	\$101.37	2.99%	\$212,771	\$164,619
2033	2,099	\$104.59	2.99%	\$219,539	\$165,939
2034	2,099	\$107.92	2.99%	\$226,523	\$167,270
2035	2,099	\$111.35	2.99%	\$233,729	\$168,612
				\$2,841,664	\$2,480,686

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U),

-- U.S. City Average Medical Care Services, 2009-2019 Annual Average Percent Change

³ = Number of pregnant women for prenatal screening × prenatal screening cost per woman

2A4.1 Quick Response Team (QRT) Addictions Counselor
CLE-Youngstown MSA May 2019

Median Hourly Wage: \$22.36 22.36 20.17
Annual Hours: 2,080
Median Annual Wage: \$46,508.80

Trumbull Exhibit 1-4

Category 4: Addressing Needs- of Special Populations

- 4A. Pregnant Women, New Mothers, and Infants
- 4B. Adolescents and Young Adults
- 4C. Families and Children
- 4D. Homeless and Housing Insecure Individuals

ECI Health & Social Assistance				
Year	Wage	Growth	Wage	Year
2019	\$46,508.80	1.97%	\$47,425.02	2020
2020	\$47,425.02	1.97%	\$48,359.30	2021
2021	\$48,359.30	1.97%	\$49,311.97	2022
2022	\$49,311.97	1.97%	\$50,283.42	2023
2023	\$50,283.42	1.97%	\$51,274.00	2024
2024	\$51,274.00	1.97%	\$52,284.10	2025
2025	\$52,284.10	1.97%	\$53,314.10	2026
2026	\$53,314.10	1.97%	\$54,364.39	2027
2027	\$54,364.39	1.97%	\$55,435.36	2028
2028	\$55,435.36	1.97%	\$56,527.44	2029
2029	\$56,527.44	1.97%	\$57,641.03	2030
2030	\$57,641.03	1.97%	\$58,776.56	2031
2031	\$58,776.56	1.97%	\$59,934.46	2032
2032	\$59,934.46	1.97%	\$61,115.17	2033
2033	\$61,115.17	1.97%	\$62,319.14	2034
2034	\$62,319.14	1.97%	\$63,546.82	2035
2035	\$63,546.82	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Median Annual Wage of Substance Abuse, Behavioral Disorder, and Mental Health Counselors (SOC 21-1018)
CLE-Youngstown MSA May 2019

Schedule 2A. Showing Connecting Individuals to Care Quick response Team
2A4.2 First Responder for Quick Response Team (QRT)

Year	Number of First Responders ¹	Median Wage of ⁷	Employer		Annual cost growth rate ⁵	Total Cost ⁹	Present Value
			Paid Fringe Benefits ³	Total Compensation ⁸			
2021	0.3	\$42,173	26.74%	\$53,450		\$18,592	\$18,592
2022	0.3	\$43,623	26.74%	\$55,288	2.09%	\$18,369	\$18,308
2023	0.3	\$45,124	26.74%	\$57,190	2.09%	\$18,148	\$18,028
2024	0.3	\$46,676	26.74%	\$59,157	2.09%	\$17,929	\$17,753
2025	0.3	\$48,282	26.74%	\$61,192	2.09%	\$17,713	\$17,482
2026	0.3	\$49,943	26.74%	\$63,297	2.09%	\$17,500	\$16,341
2027	0.3	\$51,661	26.74%	\$65,475	2.09%	\$17,290	\$15,925
2028	0.3	\$53,438	26.74%	\$67,727	2.09%	\$17,082	\$15,519
2029	0.2	\$55,276	26.74%	\$70,057	2.09%	\$16,876	\$15,124
2030	0.2	\$57,178	26.74%	\$72,467	2.09%	\$16,673	\$14,738
2031	0.2	\$59,145	26.74%	\$74,960	2.09%	\$16,472	\$13,045
2032	0.2	\$61,179	26.74%	\$77,539	2.09%	\$16,274	\$12,591
2033	0.2	\$63,284	26.74%	\$80,206	2.09%	\$16,078	\$12,153
2034	0.2	\$65,461	26.74%	\$82,965	2.09%	\$15,885	\$11,730
2035	0.2	\$67,713	26.74%	\$85,819	2.09%	\$15,694	\$11,321
						\$256,575	\$228,650

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG OH, Metropolitan Statistical Area. May 2019 (Substance Abuse, Behavioral Disorder,

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. ECI, Total Compensation Private Industry workers State and Local Government Workers, 2009-2019 Annual Average Percent Change

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics:

CLE & YNG, OH Metropolitan Statistical Area. May 2019 (Emergency Medical Technicians and Paramedics SOC: 29-2040)

⁸ = Median annual wage of first responder + employer provided fringe benefit percentage of wages

⁹ = Total number of first responders x total annual compensation of first responders

Median Hourly Wage:	\$20.17	cle	yng
Annual Hours:	2,080	22.36	20.17
Median Annual Wage:	\$41,953.60		

ECI Health
& Social
Assistance

Year	Wage	Growth	Wage	Year
2019	\$41,953.60	1.97%	\$42,780.09	2020
2020	\$42,780.09	1.97%	\$43,622.85	2021
2021	\$43,622.85	1.97%	\$44,482.22	2022
2022	\$44,482.22	1.97%	\$45,358.52	2023
2023	\$45,358.52	1.97%	\$46,252.09	2024
2024	\$46,252.09	1.97%	\$47,163.25	2025
2025	\$47,163.25	1.97%	\$48,092.37	2026
2026	\$48,092.37	1.97%	\$49,039.79	2027
2027	\$49,039.79	1.97%	\$50,005.87	2028
2028	\$50,005.87	1.97%	\$50,990.99	2029
2029	\$50,990.99	1.97%	\$51,995.51	2030
2030	\$51,995.51	1.97%	\$53,019.82	2031
2031	\$53,019.82	1.97%	\$54,064.31	2032
2032	\$54,064.31	1.97%	\$55,129.38	2033
2033	\$55,129.38	1.97%	\$56,215.43	2034
2034	\$56,215.43	1.97%	\$57,322.87	2035
2035	\$57,322.87	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 3D. Mental Health Counseling and Grief Support
3D. Mental Health Counselors

Year	Number of Counselors needed to deliver mental health and grief support ¹	Median annual wage of Mental Health Counselor ²	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	5.4	\$43,623	26.74%	\$55,288		\$300,521	\$300,521
2022	5.4	\$44,482	26.74%	\$56,377	1.97%	\$306,088	\$305,081
2023	5.4	\$45,359	26.74%	\$57,487	1.97%	\$311,773	\$309,725
2024	5.4	\$46,252	26.74%	\$58,620	1.97%	\$317,579	\$314,456
2025	5.4	\$47,163	26.74%	\$59,775	1.97%	\$323,509	\$319,273
2026	5.4	\$48,092	26.74%	\$60,952	1.97%	\$329,563	\$307,735
2027	5.4	\$49,040	26.74%	\$62,153	1.97%	\$335,745	\$309,241
2028	5.4	\$50,006	26.74%	\$63,377	1.97%	\$342,058	\$310,766
2029	5.4	\$50,991	26.74%	\$64,626	1.97%	\$348,502	\$312,311
2030	5.4	\$51,996	26.74%	\$65,899	1.97%	\$355,081	\$313,875
2031	5.4	\$53,020	26.74%	\$67,197	1.97%	\$361,797	\$286,525
2032	5.4	\$54,064	26.74%	\$68,521	1.97%	\$368,653	\$285,223
2033	5.4	\$55,129	26.74%	\$69,871	1.97%	\$375,650	\$283,936
2034	5.4	\$56,215	26.74%	\$71,247	1.97%	\$382,793	\$282,664
2035	5.4	\$57,323	26.74%	\$72,651	1.97%	\$390,083	\$281,406
						\$5,149,395	\$4,522,738

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG-OH Metropolitan Statistical Areas. May 2019 (Substance Abuse, Behavioral Disorder, and Mental Health Counselors SOC: 21-1018)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual wage of mental health counselor + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, Health and Social Assistance Workers, 2009-2019 Annual Average Percent Change.⁶ Total number of counselors needed to deliver mental health and grief support

x total annual compensation of mental health counselors

2A4.2 First Responder for Quick Response Team (QRT)

Median Annual Wage of Emergency Medical Technicians and Paramedics (SOC 29-2040)

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$18.94	cle	yng	12.56
Annual Hours:	2,080			
Median Annual Wage:	\$39,395.20			

Year	Wage	Growth	Wage	Year
2019	\$39,395.20	3.49%	\$40,770.09	2020
2020	\$40,770.09	3.44%	\$42,172.58	2021
2021	\$42,172.58	3.44%	\$43,623.32	2022
2022	\$43,623.32	3.44%	\$45,123.96	2023
2023	\$45,123.96	3.44%	\$46,676.23	2024
2024	\$46,676.23	3.44%	\$48,281.89	2025
2025	\$48,281.89	3.44%	\$49,942.79	2026
2026	\$49,942.79	3.44%	\$51,660.82	2027
2027	\$51,660.82	3.44%	\$53,437.95	2028
2028	\$53,437.95	3.44%	\$55,276.22	2029
2029	\$55,276.22	3.44%	\$57,177.72	2030
2030	\$57,177.72	3.44%	\$59,144.63	2031
2031	\$59,144.63	3.44%	\$61,179.21	2032
2032	\$61,179.21	3.44%	\$63,283.77	2033
2033	\$63,283.77	3.44%	\$65,460.73	2034
2034	\$65,460.73	3.44%	\$67,712.58	2035
2035	\$67,712.58			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

Schedule 2A. Showing Connecting Individuals to Care Quick response Team

2A4.3 Peer Coaches for Quick Response Team (QRT)

Year	Number of Peer Coaches ¹	Median Wage of Peer Coaches ¹⁰	Employer Paid Fringe Benefits ¹¹	Total Compensation ¹²	Annual cost growth rate ⁵	Total Cost ¹³	Present Value
2021	0.3	\$19,465	26.74%	\$24,670		\$8,581	\$8,581
2022	0.3	\$19,848	26.74%	\$25,156	1.97%	\$8,358	\$8,330
2023	0.3	\$20,239	26.74%	\$25,651	1.97%	\$8,140	\$8,086
2024	0.3	\$20,638	26.74%	\$26,157	1.97%	\$7,927	\$7,849
2025	0.3	\$21,045	26.74%	\$26,672	1.97%	\$7,721	\$7,620
2026	0.3	\$21,459	26.74%	\$27,197	1.97%	\$7,519	\$7,021
2027	0.3	\$21,882	26.74%	\$27,733	1.97%	\$7,323	\$6,745
2028	0.3	\$22,313	26.74%	\$28,279	1.97%	\$7,132	\$6,480
2029	0.2	\$22,753	26.74%	\$28,837	1.97%	\$6,946	\$6,225
2030	0.2	\$23,201	26.74%	\$29,405	1.97%	\$6,765	\$5,980
2031	0.2	\$23,658	26.74%	\$29,984	1.97%	\$6,589	\$5,218
2032	0.2	\$24,124	26.74%	\$30,575	1.97%	\$6,417	\$4,965
2033	0.2	\$24,599	26.74%	\$31,177	1.97%	\$6,250	\$4,724
2034	0.2	\$25,084	26.74%	\$31,791	1.97%	\$6,087	\$4,495
2035	0.2	\$25,578	26.74%	\$32,417	1.97%	\$5,928	\$4,277
						\$107,685	\$96,597

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁵ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private Industry workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change¹⁰ Assumed \$9.00 per hour.¹¹ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private Industry Workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change¹² = Median annual wage of peer coach + employer provided fringe benefit percentage of wages¹³ = Total number of peer coaches × total annual compensation of peer coaches

3C. Vocational Training Programs

Vocational Training

Monument Analytics

Vocational Training Cost Per Person: \$2,765 in 2017 \$

Year	Cost	Wage Growth	Wage	Year
2017	\$2,765.00	2.038%	\$2,821.34	2018
2018	\$2,821.34	2.995%	\$2,905.85	2019
2019	\$2,905.85	1.97%	\$2,963.10	2020
2020	\$2,963.10	1.97%	\$3,021.47	2021
2021	\$3,021.47	1.97%	\$3,080.99	2022
2022	\$3,080.99	1.97%	\$3,141.69	2023
2023	\$3,141.69	1.97%	\$3,203.58	2024
2024	\$3,203.58	1.97%	\$3,266.69	2025
2025	\$3,266.69	1.97%	\$3,331.04	2026
2026	\$3,331.04	1.97%	\$3,396.66	2027
2027	\$3,396.66	1.97%	\$3,463.58	2028
2028	\$3,463.58	1.97%	\$3,531.81	2029
2029	\$3,531.81	1.97%	\$3,601.39	2030
2030	\$3,601.39	1.97%	\$3,672.33	2031
2031	\$3,672.33	1.97%	\$3,744.68	2032
2032	\$3,744.68	1.97%	\$3,818.45	2033
2033	\$3,818.45	1.97%	\$3,893.67	2034
2034	\$3,893.67	1.97%	\$3,970.38	2035
2035	\$3,970.38			

Source: Alexander

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Schedule: 3C. Vocational Training and Job Placement
3C. Vocational Training Programs

Year	Number of individuals with OUD to receive vocational training ¹	Vocational training cost per person ²	Annual cost growth rate ³	Total Estimated Cost ⁴	Present Value
2021	1,412	\$3,021		\$4,267,389	\$4,267,389
2022	1,397	\$3,081	1.97%	\$4,304,555	\$4,290,396
2023	1,380	\$3,142	1.97%	\$4,336,881	\$4,308,398
2024	1,362	\$3,204	1.97%	\$4,364,594	\$4,321,668
2025	1,343	\$3,267	1.97%	\$4,387,914	\$4,330,469
2026	1,323	\$3,331	1.97%	\$4,407,051	\$4,115,159
2027	1,302	\$3,397	1.97%	\$4,422,207	\$4,073,102
2028	1,280	\$3,464	1.97%	\$4,433,576	\$4,027,988
2029	1,258	\$3,532	1.97%	\$4,441,346	\$3,980,121
2030	1,234	\$3,601	1.97%	\$4,445,696	\$3,929,789
2031	1,211	\$3,672	1.97%	\$4,446,800	\$3,521,639
2032	1,187	\$3,745	1.97%	\$4,444,824	\$3,438,916
2033	1,163	\$3,818	1.97%	\$4,439,928	\$3,355,928
2034	1,138	\$3,894	1.97%	\$4,432,266	\$3,272,896
2035	1,114	\$3,970	1.97%	\$4,421,984	\$3,190,019
				\$65,997,011	\$58,423,877

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Caleb Alexander, M.D., M.S. Report, see Appendix D

³ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change

⁴ = Number of individuals with OUD to receive vocational training × vocational training cost per person

2A4.3 Peer Coaches for Quick Response Team (QRT)

Median Annual Wage of Peer Recovery Coaches

Hourly Wage: \$9.00
Annual Hours: 2,080
Median Annual Wage: \$18,720.00

ECI Health Wkr				
Year	Wage	Growth	Wage	Year
2019	\$18,720.00	1.97%	\$19,088.78	2020
2020	\$19,088.78	1.97%	\$19,464.83	2021
2021	\$19,464.83	1.97%	\$19,848.29	2022
2022	\$19,848.29	1.97%	\$20,239.30	2023
2023	\$20,239.30	1.97%	\$20,638.02	2024
2024	\$20,638.02	1.97%	\$21,044.58	2025
2025	\$21,044.58	1.97%	\$21,459.16	2026
2026	\$21,459.16	1.97%	\$21,881.91	2027
2027	\$21,881.91	1.97%	\$22,312.98	2028
2028	\$22,312.98	1.97%	\$22,752.55	2029
2029	\$22,752.55	1.97%	\$23,200.77	2030
2030	\$23,200.77	1.97%	\$23,657.83	2031
2031	\$23,657.83	1.97%	\$24,123.89	2032
2032	\$24,123.89	1.97%	\$24,599.13	2033
2033	\$24,599.13	1.97%	\$25,083.73	2034
2034	\$25,083.73	1.97%	\$25,577.88	2035
2035	\$25,577.88	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule 2A. Showing Connecting Individuals to Care Bridge Programs
2A5. Bridge Programs - Emergency Departments 2021-2035

Year	Number of Emergency Departments ¹	Bridge program cost per emergency department ¹	Annual Growth rate ²	Total Cost ³	Present Value
2021	2	\$186,687	2.092%	\$373,373	\$373,373
2022	2	\$190,592	2.092%	\$381,184	\$379,930
2023	2	\$194,579	2.092%	\$389,158	\$386,603
2024	2	\$198,650	2.092%	\$397,300	\$393,392
2025	2	\$202,806	2.092%	\$405,611	\$400,301
2026	2	\$207,048	2.092%	\$414,097	\$386,670
2027	2	\$211,380	2.092%	\$422,759	\$389,385
2028	2	\$215,802	2.092%	\$431,604	\$392,120
2029	2	\$220,316	2.092%	\$440,633	\$394,874
2030	2	\$224,925	2.092%	\$449,851	\$397,647
2031	2	\$229,631	2.092%	\$459,262	\$363,712
2032	2	\$234,435	2.092%	\$468,869	\$362,760
2033	2	\$239,339	2.092%	\$478,678	\$361,810
2034	2	\$244,346	2.092%	\$488,692	\$360,862
2035	2	\$249,458	2.092%	\$498,915	\$359,918
				\$6,499,986	\$5,703,356

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation
All State and Local Government Workers, 2009-2019 Annual Average Percent Change

³ =Number of emergency departments x bridge program cost per emergency room

Schedule: 3B. Criminal Justice
3B3. Transitional Housing for Newly Released

Year	Post Incarceration population with (OUD) needing transitional housing ¹	Cost per person for transitional housing ⁶	Annual cost growth rate ⁷	Total Cost ⁸	Present Value
2021	57	\$10,711		\$608,144	\$608,144
2022	54	\$10,994	2.650%	\$596,237	\$594,276
2023	52	\$11,286	2.650%	\$584,563	\$580,724
2024	49	\$11,585	2.650%	\$573,118	\$567,481
2025	47	\$11,892	2.650%	\$561,896	\$554,540
2026	45	\$12,207	2.650%	\$550,895	\$544,407
2027	43	\$12,530	2.650%	\$540,109	\$497,471
2028	41	\$12,862	2.650%	\$529,534	\$481,092
2029	39	\$13,203	2.650%	\$519,166	\$465,252
2030	38	\$13,553	2.650%	\$509,001	\$449,933
2031	36	\$13,912	2.650%	\$499,035	\$395,211
2032	34	\$14,281	2.650%	\$489,265	\$378,539
2033	33	\$14,659	2.650%	\$479,685	\$362,571
2034	31	\$15,048	2.650%	\$470,293	\$347,276
2035	30	\$15,447	2.650%	\$461,085	\$332,627
				\$7,972,025	\$7,129,542

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

⁶ Culhane, Metraux et al, Costs associated with Family Homelessness in Columbus Ohio,
Housing Policy Debate, Volume 18, Issue 1, May 2007

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U),
U.S. City Average -- Rent of Shelter. 2009-2019 Annual Average Percent Change

⁸ = Number of Individuals released from jail/prison with opioid use disorder needing
transitional housing x cost per person for transitional housing

3B3. Transitional Housing for Newly Released

Transitional Housing for Newly Released

Monthly Cost: \$1,430.67 in 2006 dollars
 x 12 months = \$17,168.00 Columbus, Ohio

CPI Rent of
Shelter
Rent

Year	Cost	Growth	Wage	Year
2006	\$17,168.00	4.26%	\$17,898.50	2007
2007	\$17,898.50	3.13%	\$18,458.72	2008
2008	\$18,458.72	1.94%	\$18,816.64	2009
2009	\$18,816.64	0.29%	\$18,870.45	2010
2010	\$18,870.45	0.43%	\$18,951.97	2011
2011	\$18,951.97	1.90%	\$19,311.68	2012
2012	\$19,311.68	2.19%	\$19,734.03	2013
2013	\$19,734.03	2.54%	\$20,234.88	2014
2014	\$20,234.88	2.87%	\$20,816.02	2015
2015	\$20,816.02	3.23%	\$21,488.38	2016
2016	\$21,488.38	3.66%	\$22,273.99	2017
2017	\$22,273.99	3.23%	\$22,993.44	2018
2018	\$22,993.44	3.22%	\$23,732.98	2019
2019	\$23,732.98	3.28%	\$24,511.68	2020
2020	\$24,511.68	2.65%	\$10,710.53	2021
2021	\$10,710.53	2.65%	\$10,994.36	2022
2022	\$10,994.36	2.65%	\$11,285.71	2023
2023	\$11,285.71	2.65%	\$11,584.78	2024
2024	\$11,584.78	2.65%	\$11,891.78	2025
2025	\$11,891.78	2.65%	\$12,206.91	2026
2026	\$12,206.91	2.65%	\$12,530.39	2027
2027	\$12,530.39	2.65%	\$12,862.45	2028
2028	\$12,862.45	2.65%	\$13,203.30	2029
2029	\$13,203.30	2.65%	\$13,553.19	2030
2030	\$13,553.19	2.65%	\$13,912.35	2031
2031	\$13,912.35	2.65%	\$14,281.03	2032
2032	\$14,281.03	2.65%	\$14,659.47	2033
2033	\$14,659.47	2.65%	\$15,047.95	2034
2034	\$15,047.95	2.65%	\$15,446.72	2035
2035	\$15,446.72	2.65%		

Testing a Typology of Family Homelessness Based on a Pattern

Culhane, Metraux, Park, Schretzman and Valente., Housing Policy Debate, Volume 18, Issue 1, May 200
 of Public Shelter Utilization in Four US Jurisdictions: Implications for Policy and Program Planning.

2A5. Bridge Programs - Emergency Departments 2021-2035

Annual Cost:

\$260,000 in 2018 dollars

ECI State &
Local Gov

Year	Cost	Growth	Wage	Year	Wage	Year
2018	\$173,333	2.485%	\$177,640	2019	\$182,861	2020
2019	\$177,640.22	2.959%	\$186,687	2021	\$190,592	2022
2020	\$182,861.09	2.092%	\$194,579	2023	\$198,650	2024
2021	\$186,686.55	2.092%	\$202,806	2025	\$207,048	2026
2022	\$190,592.03	2.092%	\$211,380	2027	\$215,802	2028
2023	\$194,579.22	2.092%	\$220,316	2029	\$224,925	2030
2024	\$198,649.81	2.092%	\$229,631	2031	\$239,339	2032
2025	\$202,805.57	2.092%	\$244,346	2034	\$249,458	2035
2026	\$207,048.26	2.092%				
2027	\$211,379.71	2.092%				
2028	\$215,801.77	2.092%				
2029	\$220,316.35	2.092%				
2030	\$224,925.36	2.092%				
2031	\$229,630.80	2.092%				
2032	\$234,434.68	2.092%				
2033	\$239,339.05	2.092%				
2034	\$244,346.03	2.092%				
2035	\$249,457.74	2.092%				

Source: Cost in 2018 dollars. California Bridge Program available funding for a Star Site for 12 months. Public Health Institute.
http://www.phii.org/wp-content/uploads/migration/uploads/CA%20Bridge%20Program_SITE%20SELECTION%20RFA_16Nov2018.pdf.

Schedule: 2B. Showing Treating Opioid Use Disorder 2021-2035

2B1. Outpatient Treatment

Year	Number of Outpatient Treatment ¹	Average Cost Per Day ¹	Number of Days in Year Required ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	388	\$116.09	365	4.145%	\$16,426,802	\$16,426,802
2022	411	\$120.90	365	4.145%	\$18,132,104	\$18,072,465
2023	433	\$125.92	365	4.145%	\$19,901,791	\$19,771,087
2024	454	\$131.13	365	4.145%	\$21,734,694	\$21,520,933
2025	474	\$136.57	365	4.145%	\$23,629,655	\$23,320,300
2026	493	\$142.23	365	4.145%	\$25,585,530	\$23,890,926
2027	511	\$148.13	365	4.145%	\$27,601,187	\$25,422,253
2028	527	\$154.27	365	4.145%	\$29,675,509	\$26,960,762
2029	542	\$160.66	365	4.145%	\$31,807,387	\$28,504,256
2030	557	\$167.32	365	4.145%	\$33,995,729	\$30,050,643
2031	570	\$174.26	365	4.145%	\$36,239,452	\$28,699,798
2032	582	\$181.48	365	4.145%	\$38,537,486	\$29,816,065
2033	593	\$189.00	365	4.145%	\$40,888,773	\$30,905,854
2034	603	\$196.84	365	4.145%	\$43,292,269	\$31,968,094
2035	611	\$204.99	365	4.145%	\$45,746,938	\$33,001,839
					\$453,195,305	\$388,332,078

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Outpatient Hospital Services. 2009-2019 Annual Average Percent Change³ = Number of individuals with OUD in outpatient treatment x average cost per day of outpatient treatment x 365 days per year

3B2. Reentry and Reintegration

Reentry and Reintegration

Reentry Cost Per Person: \$2,434 in 2017 dollars

Year	Cost	Wage Growth	Wage	Year
2017	\$2,434.00	2.594%	\$2,497.15	2018
2018	\$2,497.15	2.989%	\$2,571.77	2019
2019	\$2,571.77	2.679%	\$2,640.66	2020
2020	\$2,640.66	2.275%	\$2,700.74	2021
2021	\$2,700.74	2.275%	\$2,762.18	2022
2022	\$2,762.18	2.275%	\$2,825.02	2023
2023	\$2,825.02	2.275%	\$2,889.29	2024
2024	\$2,889.29	2.275%	\$2,955.02	2025
2025	\$2,955.02	2.275%	\$3,022.24	2026
2026	\$3,022.24	2.275%	\$3,091.00	2027
2027	\$3,091.00	2.275%	\$3,161.32	2028
2028	\$3,161.32	2.275%	\$3,233.24	2029
2029	\$3,233.24	2.275%	\$3,306.80	2030
2030	\$3,306.80	2.275%	\$3,382.03	2031
2031	\$3,382.03	2.275%	\$3,458.97	2032
2032	\$3,458.97	2.275%	\$3,537.66	2033
2033	\$3,537.66	2.275%	\$3,618.14	2034
2034	\$3,618.14	2.275%	\$3,700.45	2035
2035	\$3,700.45			

Source: Alexander

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Schedule: 3B. Criminal Justice

3B2. Reentry and Reintegration

Year	Number of Individuals released from jail/prison with OUD ¹	Cost per reentry ¹	Annual cost growth rate ⁴	Total Cost ⁵	Present Value
2021	189	\$2,701		\$511,159	\$511,159
2022	181	\$2,762	2.275%	\$499,320	\$497,678
2023	173	\$2,825	2.275%	\$487,755	\$484,552
2024	165	\$2,889	2.275%	\$476,459	\$471,773
2025	158	\$2,955	2.275%	\$465,423	\$459,330
2026	150	\$3,022	2.275%	\$454,644	\$424,531
2027	144	\$3,091	2.275%	\$444,114	\$409,054
2028	137	\$3,161	2.275%	\$433,828	\$394,141
2029	131	\$3,233	2.275%	\$423,780	\$379,771
2030	125	\$3,307	2.275%	\$413,965	\$365,926
2031	120	\$3,382	2.275%	\$404,377	\$320,246
2032	114	\$3,459	2.275%	\$395,011	\$305,616
2033	109	\$3,538	2.275%	\$385,862	\$291,655
2034	104	\$3,618	2.275%	\$376,926	\$278,331
2035	100	\$3,700	2.275%	\$368,196	\$265,616
				\$6,540,818	\$5,859,379

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index, All Workers. 2009-2019 Annual Average Percent Change

2B1. Outpatient Treatment

Suggested Average Cost PerYr. of Outpatient Treatment

Medical Care Services					
Year	Cost	Growth	Cost	Year	
2017	\$100.22	4.84%	\$105.07	2018	
2018	\$105.07	4.02%	\$109.29	2019	
2019	\$109.29	2.00%	\$111.47	2020	
2020	\$111.47	4.15%	\$116.09	2021	
2021	\$116.09	4.15%	\$120.90	2022	
2022	\$120.90	4.15%	\$125.92	2023	
2023	\$125.92	4.15%	\$131.13	2024	
2024	\$131.13	4.15%	\$136.57	2025	
2025	\$136.57	4.15%	\$142.23	2026	
2026	\$142.23	4.15%	\$148.13	2027	
2027	\$148.13	4.15%	\$154.27	2028	
2028	\$154.27	4.15%	\$160.66	2029	
2029	\$160.66	4.15%	\$167.32	2030	
2030	\$167.32	4.15%	\$174.26	2031	
2031	\$174.26	4.15%	\$181.48	2032	
2032	\$181.48	4.15%	\$189.00	2033	
2033	\$189.00	4.15%	\$196.84	2034	
2034	\$196.84	4.15%	\$204.99	2035	
2035	\$204.99				

2017\$
\$3,048 mo
\$36,578.88 Yr.
\$100.22 Day

Source: Alexander- \$3,048/month or \$100.22/Day (2017\$)

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Schedule: 2B. Showing Treating Opioid Use Disorder 2021-2035
2B2. Intensive Outpatient Treatment

Year	Number in Intensive Outpatient Treatment ¹	Average Cost Per Day of Intensive Outpatient Treatment ¹	Number of Days in Year Required ¹	Annual cost growth rate ²	Total Cost ⁴	Present Value
2021	171	\$151.15	365	3.181%	\$9,417,917	\$9,417,917
2022	181	\$155.96	365	3.181%	\$10,299,386	\$10,265,510
2023	191	\$160.92	365	3.181%	\$11,199,963	\$11,126,408
2024	200	\$166.04	365	3.181%	\$12,118,232	\$11,999,049
2025	209	\$171.32	365	3.181%	\$13,052,822	\$12,881,937
2026	217	\$176.77	365	3.181%	\$14,002,409	\$13,074,989
2027	225	\$182.39	365	3.181%	\$14,965,714	\$13,784,268
2028	232	\$188.19	365	3.181%	\$15,941,499	\$14,483,154
2029	239	\$194.18	365	3.181%	\$16,928,570	\$15,170,573
2030	245	\$200.36	365	3.181%	\$17,925,775	\$15,845,552
2031	251	\$206.73	365	3.181%	\$18,932,001	\$16,493,180
2032	256	\$213.31	365	3.181%	\$19,946,173	\$17,175,154
2033	261	\$220.09	365	3.181%	\$20,967,256	\$17,848,139
2034	265	\$227.09	365	3.181%	\$21,994,251	\$18,511,105
2035	269	\$234.32	365	3.181%	\$23,026,194	\$19,161,096
					\$240,718,163	\$207,175,030

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Outpatient Hospital Services. 2009-2019 Annual Average Percent Change

⁴ = Number of individuals with OUD in intensive outpatient treatment × average cost per day of intensive outpatient treatment × 365 days per year

3B1. Opioid Drug Court

Drug Court Cost Per Participant

Year	Cost	Growth	Wage	Year
2003	\$5,777	5.00%	2003 \$	
2004	\$6,086	5.34%		
2005	\$6,291	3.38%		
2006	\$6,572	4.46%		
2007	\$6,762	2.90%		
2008	\$7,068	4.53%		
2009	\$7,290	3.13%		
2010	\$7,526	3.24%		
2011	\$7,729	2.69%		
2012	\$7,872	1.85%		
2013	\$8,084	2.69%	\$8,301.18	2014
2014	\$8,200	1.44%	\$8,317.56	2015
2015	\$8,435	2.86%	\$8,676.22	2016
2016	\$8,780	4.10%	\$9,139.77	2017
2017	\$8,896	1.32%	\$9,013.82	2018
2018	\$9,462	6.36%	\$10,064.36	2019
2019	\$9,372	-0.95%	\$9,283.35	2020
2020	\$9,611	2.55%	\$9,855.51	2021
2021	\$9,856	2.55%	\$10,106.33	2022
2022	\$10,106	2.55%	\$10,363.54	2023
2023	\$10,364	2.55%	\$10,627.29	2024
2024	\$10,627	2.55%	\$10,897.76	2025
2025	\$10,898	2.55%	\$11,175.10	2026
2026	\$11,175	2.55%	\$11,459.51	2027
2027	\$11,460	2.55%	\$11,751.15	2028
2028	\$11,751	2.55%	\$12,050.22	2029
2029	\$12,050	2.55%	\$12,356.90	2030
2030	\$12,357	2.55%	\$12,671.38	2031
2031	\$12,671	2.55%	\$12,993.87	2032
2032	\$12,994	2.55%	\$13,324.56	2033
2033	\$13,325	2.55%	\$13,663.67	2034
2034	\$13,664	2.55%	\$14,011.41	2035
2035	\$14,011	2.55%		

Evaluation of Ohio's Drug Courts: A Cost Benefit Study,
University of Cincinnati, December 2005.

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Schedule: 3B. Criminal Justice

3B1. Opioid Drug Court

		Cost per drug court participant (excluding treatment costs) ¹		Annual cost growth rate ²	Total Cost ³	Present Value
Year	Number of opioid drug court participants ¹					
2021	48	\$9,856			\$470,363	\$470,363
2022	76	\$10,106	2.545%		\$771,734	\$769,195
2023	122	\$10,364	2.545%		\$1,266,199	\$1,257,883
2024	134	\$10,627	2.545%		\$1,428,266	\$1,414,219
2025	148	\$10,898	2.545%		\$1,611,077	\$1,589,985
2026	163	\$11,175	2.545%		\$1,817,287	\$1,696,923
2027	179	\$11,460	2.545%		\$2,049,891	\$1,888,065
2028	197	\$11,751	2.545%		\$2,312,266	\$2,100,738
2029	216	\$12,050	2.545%		\$2,608,225	\$2,337,366
2030	238	\$12,357	2.545%		\$2,942,065	\$2,600,648
2031	262	\$12,671	2.545%		\$3,318,634	\$2,628,189
2032	288	\$12,994	2.545%		\$3,743,403	\$2,896,233
2033	317	\$13,325	2.545%		\$4,222,540	\$3,191,614
2034	349	\$13,664	2.545%		\$4,763,003	\$3,517,121
2035	383	\$14,011	2.545%		\$5,372,644	\$3,875,825
					\$38,697,596	\$32,234,368

Notes and Sources:

¹ *Evaluation of Ohio's Drug Courts: A Cost Benefit Study*, University of Cincinnati, December 2005.² U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Legal Services, 2009-2019 Annual Average Percent Change³ = Number of opioid drug court participants x cost per drug court participant

2B2. Intensive Outpatient Treatment

Year	Cost	Growth	Cost	Year
2017	\$133.62	1.64%	\$135.81	2018
2018	\$135.81	2.64%	\$139.40	2019
2019	\$139.40	5.09%	\$146.49	2020
2020	\$146.49	3.18%	\$151.15	2021
2021	\$151.15	3.18%	\$155.96	2022
2022	\$155.96	3.18%	\$160.92	2023
2023	\$160.92	3.18%	\$166.04	2024
2024	\$166.04	3.18%	\$171.32	2025
2025	\$171.32	3.18%	\$176.77	2026
2026	\$176.77	3.18%	\$182.39	2027
2027	\$182.39	3.18%	\$188.19	2028
2028	\$188.19	3.18%	\$194.18	2029
2029	\$194.18	3.18%	\$200.36	2030
2030	\$200.36	3.18%	\$206.73	2031
2031	\$206.73	3.18%	\$213.31	2032
2032	\$213.31	3.18%	\$220.09	2033
2033	\$220.09	3.18%	\$227.09	2034
2034	\$227.09	3.18%	\$234.32	2035
2035	\$234.32	3.18%		

\$4,064 mo
\$48,771.84 yr
\$133.62 day

Source: Alexander-\$4,064/month or \$133.62/day.

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3A3. Stigma Reduction Training Hours
 Weighted Average Median Hourly Wage for Police Officers and Correctional Officers
 Median Annual Wage of First-Line Supervisors of Police and Detectives (SOC 33-1012)
 Median Annual Wage of Police and Sheriff's Patrol Officers (SOC 33-3051)
 Median Annual Wage of Correctional Officers and Jailers (SOC 33-3012)

CLE MSA & YNG MSA, May 2019

	Employed	% Employed	Wage	Weighted
First-Line Supervisors of Police and Detectives (SOC 33-1012)	670	8.44%	\$41.27	\$3.48
Police and Sheriff's Patrol Officers (SOC 33-3051)	4920	61.96%	\$29.33	\$18.17
Correctional Officers and Jailers (SOC 33-3012)	2350	29.60%	\$24.11	\$7.14
	7,940	100.00%		\$28.79

Weighted Average Median Hourly Wage: \$22.09

Year	Wage	Growth	Wage	Year
2019	\$22.09	2.94%	\$22.74	2020
2020	\$22.74	2.09%	\$23.21	2021
2021	\$23.21	2.09%	\$23.70	2022
2022	\$23.70	2.09%	\$24.20	2023
2023	\$24.20	2.09%	\$24.70	2024
2024	\$24.70	2.09%	\$25.22	2025
2025	\$25.22	2.09%	\$25.75	2026
2026	\$25.75	2.09%	\$26.29	2027
2027	\$26.29	2.09%	\$26.84	2028
2028	\$26.84	2.09%	\$27.40	2029
2029	\$27.40	2.09%	\$27.97	2030
2030	\$27.97	2.09%	\$28.56	2031
2031	\$28.56	2.09%	\$29.15	2032
2032	\$29.15	2.09%	\$29.76	2033
2033	\$29.76	2.09%	\$30.38	2034
2034	\$30.38	2.09%	\$31.02	2035
2035	\$31.02			

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_d1.xlsx

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Schedule: 2B. Showing Treating Opioid Use Disorder 2021-2035
 2B3. Residential Treatment

Year	Number in Residential Treatment ¹	Average Cost Per Day of Residential Treatment ¹	Number of Days in Year Required ¹	Annual cost growth rate ²	Total Cost ⁵	Present Value
2021	82	\$174.75	365		\$5,205,506	\$5,205,506
2022	87	\$183.26	365	4.875%	\$5,786,176	\$5,767,144
2023	91	\$192.20	365	4.875%	\$6,395,421	\$6,353,419
2024	96	\$201.57	365	4.875%	\$7,033,380	\$6,964,206
2025	100	\$211.39	365	4.875%	\$7,700,190	\$7,599,381
2026	104	\$221.70	365	4.875%	\$8,395,993	\$7,839,902
2027	107	\$232.51	365	4.875%	\$9,120,926	\$8,400,889
2028	111	\$243.84	365	4.875%	\$9,875,132	\$8,971,745
2029	114	\$255.73	365	4.875%	\$10,658,750	\$9,551,861
2030	117	\$268.20	365	4.875%	\$11,471,922	\$10,140,646
2031	120	\$281.27	365	4.875%	\$12,314,790	\$9,752,686
2032	122	\$294.98	365	4.875%	\$13,187,495	\$10,203,032
2033	125	\$309.36	365	4.875%	\$14,090,181	\$10,650,089
2034	127	\$324.45	365	4.875%	\$15,022,990	\$11,093,352
2035	129	\$340.26	365	4.875%	\$15,986,066	\$11,532,348
					\$152,244,919	\$130,026,205

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Inpatient Hospital Services. 2009-2019 Annual Average Percent Change

⁵ = Number of individuals in residential treatment x

Average cost per day of intensive outpatient treatment x 365 days per year

Weighted average median Number of hours of annual training for police and correctional officers ¹⁰	Annual cost ¹⁰	Growth rate ¹⁰	Total Cost ¹¹	Present Value ¹¹
1,871	\$23.21	2.092%	\$43,436	\$43,436
1,868	\$23.70	2.092%	\$44,125	\$44,125
1,865	\$24.20	2.092%	\$45,121	\$44,825
1,862	\$24.70	2.092%	\$45,987	\$45,535
1,859	\$25.22	2.092%	\$46,871	\$46,257
1,855	\$25.75	2.092%	\$47,771	\$46,957
1,852	\$26.29	2.092%	\$48,688	\$47,685
1,849	\$26.84	2.092%	\$49,623	\$48,445
1,846	\$27.40	2.092%	\$50,576	\$49,224
1,843	\$27.97	2.092%	\$51,548	\$50,024
1,840	\$28.56	2.092%	\$52,538	\$50,845
1,837	\$29.15	2.092%	\$53,547	\$51,685
1,834	\$29.76	2.092%	\$54,575	\$52,548
1,831	\$30.38	2.092%	\$55,623	\$53,434
1,828	\$31.02	2.092%	\$56,692	\$54,341
			\$746,867	\$655,861

Notes and Sources:
¹ Caleb Alexander, M.D., M.S. Report, see Appendix D
² U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index, and Local Government Workers, 2009-2019 Annual Average Percent Change.
¹⁰ = Median annual detective salary + employer provided fringe benefits
¹¹ U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics, CLE and YNG, OH Metropolitan Statistical Areas, May 2019.

2B3. Residential Treatment

Year	Cost	Growth	Cost	Year
2017	\$150.48	4.22%	\$156.83	2018
2018	\$156.83	2.85%	\$161.29	2019
2019	\$161.29	3.30%	\$166.62	2020
2020	\$166.62	4.88%	\$174.75	2021
2021	\$174.75	4.88%	\$183.26	2022
2022	\$183.26	4.88%	\$192.20	2023
2023	\$192.20	4.88%	\$201.57	2024
2024	\$201.57	4.88%	\$211.39	2025
2025	\$211.39	4.88%	\$221.70	2026
2026	\$221.70	4.88%	\$232.51	2027
2027	\$232.51	4.88%	\$243.84	2028
2028	\$243.84	4.88%	\$255.73	2029
2029	\$255.73	4.88%	\$268.20	2030
2030	\$268.20	4.88%	\$281.27	2031
2031	\$281.27	4.88%	\$294.98	2032
2032	\$294.98	4.88%	\$309.36	2033
2033	\$309.36	4.88%	\$324.45	2034
2034	\$324.45	4.88%	\$340.26	2035
2035	\$340.26	4.88%		

2017\$
\$4,577 mo
\$54,924.00 year
\$150.48 day

Source: Alexander

Schedule: 2B. Showing Treating Opioid Use Disorder 2021-2035

2B4. Inpatient Treatment

Year	Number in Inpatient Treatment ¹	Average Cost Per Day of Inpatient Treatment ¹	Number of Days in Year Required ¹	Annual cost growth rate ⁶	Total Cost ⁷	Present Value
2021	40	\$218.16	365	4.875%	\$3,195,163	\$3,195,163
2022	43	\$228.79	365	4.875%	\$3,551,581	\$3,539,899
2023	45	\$239.94	365	4.875%	\$3,925,539	\$3,899,758
2024	47	\$251.64	365	4.875%	\$4,317,120	\$4,274,661
2025	49	\$263.91	365	4.875%	\$4,726,412	\$4,664,534
2026	51	\$276.77	365	4.875%	\$5,153,498	\$4,812,167
2027	53	\$290.27	365	4.875%	\$5,598,466	\$5,156,504
2028	55	\$304.42	365	4.875%	\$6,061,401	\$5,506,897
2029	56	\$319.26	365	4.875%	\$6,542,389	\$5,862,975
2030	58	\$334.82	365	4.875%	\$7,041,518	\$6,224,374
2031	59	\$351.14	365	4.875%	\$7,558,874	\$5,986,243
2032	60	\$368.26	365	4.875%	\$8,094,544	\$6,262,667
2033	61	\$386.22	365	4.875%	\$8,648,617	\$6,537,073
2034	62	\$405.04	365	4.875%	\$9,221,179	\$6,809,149
2035	63	\$424.79	365	4.875%	\$9,812,320	\$7,078,607
					\$93,448,621	\$79,810,674

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁶ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index,

All Urban Consumers (CPI-U), U.S. City Average -- Hospital Inpatient Services. 2009-2019 Annual Average Percent Change

⁷ = Number of individuals with OUD in inpatient treatment × average cost per day of inpatient treatment × 365 days per year

Specialized Overdose Units	akr	\$	63,301	yng	\$	62,622
Detectives	cle	\$	65,259			
	Elyria	\$	63,591			
Salary.com	Med/Avg	\$	64,050	in 2019 \$	\$	62,622

Average Detective Annual Wage:

Year	Cost	Growth	Wage	Year
2017	\$0.00	2.39%	\$0.00	2018
2018	\$0.00	2.48%	\$0.00	2019
2019	\$62,622.00	2.94%	\$64,462.47	2020
2020	\$64,462.47	2.09%	\$65,811.03	2021
2021	\$65,811.03	2.09%	\$67,187.79	2022
2022	\$67,187.79	2.09%	\$68,593.36	2023
2023	\$68,593.36	2.09%	\$70,028.33	2024
2024	\$70,028.33	2.09%	\$71,493.33	2025
2025	\$71,493.33	2.09%	\$72,988.97	2026
2026	\$72,988.97	2.09%	\$74,515.90	2027
2027	\$74,515.90	2.09%	\$76,074.77	2028
2028	\$76,074.77	2.09%	\$77,666.25	2029
2029	\$77,666.25	2.09%	\$79,291.03	2030
2030	\$79,291.03	2.09%	\$80,949.80	2031
2031	\$80,949.80	2.09%	\$82,643.27	2032
2032	\$82,643.27	2.09%	\$84,372.17	2033
2033	\$84,372.17	2.09%	\$86,137.23	2034
2034	\$86,137.23	2.09%	\$87,939.22	2035
2035	\$87,939.22			

Source: Salary.com Median Income

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Schedule: 3A Public Safety

3A2. Specialized Overdose Units

Year	Number of detectives for a specialized overdose unit ¹	Median annual Specialist salary ¹⁰	Employer Paid Fringe Benefits (percent of wages) ⁶	Total annual Compensation ¹¹	Annual cost growth rate ⁸	Total Cost ¹²	Present Value
2021	1.9	\$65,811	26.74%	\$83,409	2.092%	\$159,329	\$159,329
2022	1.8	\$67,188	26.74%	\$85,154	2.092%	\$155,361	\$154,850
2023	1.7	\$68,593	26.74%	\$86,935	2.092%	\$151,491	\$150,496
2024	1.7	\$70,028	26.74%	\$88,754	2.092%	\$147,717	\$146,265
2025	1.6	\$71,493	26.74%	\$90,611	2.092%	\$144,098	\$142,152
2026	1.5	\$72,989	26.74%	\$92,506	2.092%	\$140,450	\$131,148
2027	1.5	\$74,516	26.74%	\$94,441	2.092%	\$136,952	\$126,140
2028	1.4	\$76,075	26.74%	\$96,417	2.092%	\$133,540	\$121,324
2029	1.3	\$77,666	26.74%	\$98,434	2.092%	\$130,214	\$116,692
2030	1.3	\$79,291	26.74%	\$100,493	2.092%	\$126,971	\$112,236
2031	1.2	\$80,950	26.74%	\$102,596	2.092%	\$123,808	\$98,050
2032	1.2	\$82,643	26.74%	\$104,742	2.092%	\$120,724	\$93,403
2033	1.1	\$84,372	26.74%	\$106,933	2.092%	\$117,717	\$88,977
2034	1.1	\$86,137	26.74%	\$109,170	2.092%	\$114,785	\$84,760
2035	1.0	\$87,939	26.74%	\$111,454	2.092%	\$111,926	\$80,743
						\$2,015,023	\$1,806,564

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁶ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019⁸ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, State and Local Government Workers. 2009-2019 Annual Average Percent Change.¹⁰ Average Median detective wage Akron, Cleveland and Elyria. www.Salary.com¹² Number of specialists for a specialized overdose unit x total annual compensation.

2B4. Inpatient Treatment

Inpatient Hospital				
Year	Cost	Growth	Cost	Year
2017	\$187.86	4.22%	\$195.79	2018
2018	\$195.79	2.85%	\$201.36	2019
2019	\$201.36	3.30%	\$208.01	2020
2020	\$208.01	4.88%	\$218.16	2021
2021	\$218.16	4.88%	\$228.79	2022
2022	\$228.79	4.88%	\$239.94	2023
2023	\$239.94	4.88%	\$251.64	2024
2024	\$251.64	4.88%	\$263.91	2025
2025	\$263.91	4.88%	\$276.77	2026
2026	\$276.77	4.88%	\$290.27	2027
2027	\$290.27	4.88%	\$304.42	2028
2028	\$304.42	4.88%	\$319.26	2029
2029	\$319.26	4.88%	\$334.82	2030
2030	\$334.82	4.88%	\$351.14	2031
2031	\$351.14	4.88%	\$368.26	2032
2032	\$368.26	4.88%	\$386.22	2033
2033	\$386.22	4.88%	\$405.04	2034
2034	\$405.04	4.88%	\$424.79	2035
2035	\$424.79			

2017\$
\$5,714 mo
\$68,568.00 yr
\$187.86 day

Source: Alexander

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Schedule: 2B. Treating Opioid Use Disorder- Medications 2021-2035

2B5. Buprenorphine

Year	Number Receiving MAT- Buprenorphine	Average Cost Per Day of Buprenorphine ¹	Number of days Required per year	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	412	\$3.07	365	3.097%	\$461,752	\$461,752
2022	437	\$3.16	365	3.097%	\$504,558	\$502,899
2023	460	\$3.26	365	3.097%	\$548,230	\$544,630
2024	483	\$3.36	365	3.097%	\$592,696	\$586,867
2025	504	\$3.47	365	3.097%	\$637,887	\$629,535
2026	524	\$3.58	365	3.097%	\$683,735	\$638,450
2027	543	\$3.69	365	3.097%	\$730,179	\$672,536
2028	560	\$3.80	365	3.097%	\$777,154	\$706,059
2029	577	\$3.92	365	3.097%	\$824,602	\$738,969
2030	592	\$4.04	365	3.097%	\$872,466	\$771,219
2031	606	\$4.16	365	3.097%	\$920,690	\$729,139
2032	619	\$4.29	365	3.097%	\$969,221	\$749,876
2033	630	\$4.43	365	3.097%	\$1,018,008	\$769,463
2034	641	\$4.56	365	3.097%	\$1,067,001	\$787,900
2035	650	\$4.70	365	3.097%	\$1,116,154	\$805,193
					\$11,724,332	\$10,094,488

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change³ = Number of individuals receiving MAT Buprenorphine x average cost per day of Buprenorphine
x 365 days per year

3A1. Law Enforcement Assisted Diversion (LEAD)

ECI State & Govt Wkrs				
Year	Cost	Growth	Wage	Year
2011	\$ 24,275	1.21%	\$24,569.24	2012
2012	\$24,569	1.80%	\$25,010.61	2013
2013	\$25,011	1.68%	\$25,430.95	2014
2014	\$25,431	2.07%	\$25,956.39	2015
2015	\$25,956	2.59%	\$26,628.94	2016
2016	\$26,629	2.37%	\$27,259.46	2017
2017	\$27,259	2.39%	\$27,911.00	2018
2018	\$27,911	2.48%	\$28,604.57	2019
2019	\$28,605	2.94%	\$29,445.26	2020
2020	\$29,445	2.09%	\$30,061.25	2021
2021	\$30,061	2.09%	\$30,690.14	2022
2022	\$30,690	2.09%	\$31,332.17	2023
2023	\$31,332	2.09%	\$31,987.64	2024
2024	\$31,988	2.09%	\$32,656.82	2025
2025	\$32,657	2.09%	\$33,340.00	2026
2026	\$33,340	2.09%	\$34,037.48	2027
2027	\$34,037	2.09%	\$34,749.54	2028
2028	\$34,750	2.09%	\$35,476.50	2029
2029	\$35,477	2.09%	\$36,218.67	2030
2030	\$36,219	2.09%	\$36,976.37	2031
2031	\$36,976	2.09%	\$37,749.91	2032
2032	\$37,750	2.09%	\$38,539.64	2033
2033	\$38,540	2.09%	\$39,345.89	2034
2034	\$39,346	2.09%	\$40,169.00	2035
2035	\$40,169	2.09%		

Lead Program Evaluation: Criminal Justice and
Legal System Utilization and Associated Costs,
University of Washington, June 24, 2015, page 16.

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Schedule: 3A Public Safety

3A1. Law Enforcement Assisted Diversion (LEAD)

Year	LEAD programs to be established for police departments ¹	Cost per LEAD per police department ²	Annual cost growth rate ³	Total Estimated Cost ⁴	Present Value
2021	5.0	\$30,061	2.092%	\$150,306	\$150,306
2022	5.0	\$30,690	2.092%	\$153,451	\$152,946
2023	5.0	\$31,332	2.092%	\$156,661	\$155,632
2024	5.0	\$31,988	2.092%	\$159,938	\$158,365
2025	5.0	\$32,657	2.092%	\$163,284	\$161,146
2026	5.0	\$33,340	2.092%	\$166,700	\$155,659
2027	5.0	\$34,037	2.092%	\$170,187	\$156,752
2028	5.0	\$34,750	2.092%	\$173,748	\$157,853
2029	5.0	\$35,477	2.092%	\$177,383	\$158,962
2030	5.0	\$36,219	2.092%	\$181,093	\$160,078
2031	5.0	\$36,976	2.092%	\$184,882	\$146,417
2032	5.0	\$37,750	2.092%	\$188,750	\$146,034
2033	5.0	\$38,540	2.092%	\$192,698	\$145,651
2034	5.0	\$39,346	2.092%	\$196,729	\$145,270
2035	5.0	\$40,169	2.092%	\$200,845	\$144,890
				\$2,616,655	\$2,295,961

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Lead Program Evaluation: Criminal Justice and Legal System Utilization and Associated Costs, University of Washington, June 24, 2015.³ U.S. Department of Labor, Bureau of Labor Statistics. ECI State and Local Workers, 2009-2019 Annual Average Percent Change⁴ = Number of police departments to establish LEAD × cost per LEAD per police department

2B5. Buprenorphine

Buprenorphine: Cost per day

Year	Cost	CPI Rx Growth	Cost	Year
2020	\$0.00	3.10%	\$3.07	2021
2021	\$3.07	3.10%	\$3.16	2022
2022	\$3.16	3.10%	\$3.26	2023
2023	\$3.26	3.10%	\$3.36	2024
2024	\$3.36	3.10%	\$3.47	2025
2025	\$3.47	3.10%	\$3.58	2026
2026	\$3.58	3.10%	\$3.69	2027
2027	\$3.69	3.10%	\$3.80	2028
2028	\$3.80	3.10%	\$3.92	2029
2029	\$3.92	3.10%	\$4.04	2030
2030	\$4.04	3.10%	\$4.16	2031
2031	\$4.16	3.10%	\$4.29	2032
2032	\$4.29	3.10%	\$4.43	2033
2033	\$4.43	3.10%	\$4.56	2034
2034	\$4.56	3.10%	\$4.70	2035
2035	\$4.70			

Source: Alexander

2021\$

\$93.36 mo

\$1,120.35 yr

\$3.07 day

Schedule: 2B. Treating Opioid Use Disorder- Medications 2021-2035

2B6. Methadone

Year	Number of Individuals Receiving MAT- Methadone ¹	Average Cost Per Day of Methadone ¹	Number of days Required per year	Annual cost growth rate ²	Total Estimated Cost ⁴	Present Value
2021	224	\$1.35	365	3.097%	\$110,861	\$110,861
2022	238	\$1.40	365	3.097%	\$121,138	\$120,740
2023	251	\$1.44	365	3.097%	\$131,624	\$130,759
2024	263	\$1.48	365	3.097%	\$142,299	\$140,900
2025	274	\$1.53	365	3.097%	\$153,149	\$151,144
2026	285	\$1.58	365	3.097%	\$164,157	\$153,284
2027	296	\$1.63	365	3.097%	\$175,307	\$161,468
2028	305	\$1.68	365	3.097%	\$186,585	\$169,516
2029	314	\$1.73	365	3.097%	\$197,977	\$177,418
2030	322	\$1.78	365	3.097%	\$209,469	\$185,161
2031	330	\$1.84	365	3.097%	\$221,047	\$175,058
2032	337	\$1.89	365	3.097%	\$232,698	\$180,036
2033	343	\$1.95	365	3.097%	\$244,411	\$184,739
2034	349	\$2.01	365	3.097%	\$256,174	\$189,165
2035	354	\$2.07	365	3.097%	\$267,975	\$193,317
					\$2,814,872	\$2,423,566

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change⁴ = Number of Individuals receiving MAT Methadone × average cost per day of Methadone × 365 days per year

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Category 3: Recovery –
Enhancing Public Safety and Reintegration

- 3A. Public Safety
- 3B. Criminal Justice System
- 3C. Vocational Training and Job Placement
- 3D. Reengineering the Workplace
- 3E. Mental Health Counseling and Grief Support

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2E5b. Narcan for Public Lock Boxes (Doses for boxes)
Nasal Spray (Narcan) Sing-Use Spray Cost

Year	Cost	Rx Growth	Cost	Year
2019	\$59.96	3.097%	\$61.82	2020
2020	\$61.82	3.097%	\$59.94	2021
2021	\$59.94	3.097%	\$61.80	2022
2022	\$61.80	3.097%	\$63.71	2023
2023	\$63.71	3.097%	\$65.68	2024
2024	\$65.68	3.097%	\$67.72	2025
2025	\$67.72	3.097%	\$69.81	2026
2026	\$69.81	3.097%	\$71.98	2027
2027	\$71.98	3.097%	\$74.21	2028
2028	\$74.21	3.097%	\$76.50	2029
2029	\$76.50	3.097%	\$78.87	2030
2030	\$78.87	3.097%	\$81.32	2031
2031	\$81.32	3.097%	\$83.83	2032
2032	\$83.83	3.097%	\$86.43	2033
2033	\$86.43	3.097%	\$89.11	2034
2034	\$89.11	3.097%	\$91.87	2035
2035	\$91.87			

Source: Alexander

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2B6. Methadone
Methadone: Cost per day

Year	Cost	CPI Rx Growth	Cost	Year
2020	\$0.00	3.10%	\$1.35	2021
2021	\$1.35	3.10%	\$1.40	2022
2022	\$1.40	3.10%	\$1.44	2023
2023	\$1.44	3.10%	\$1.48	2024
2024	\$1.48	3.10%	\$1.53	2025
2025	\$1.53	3.10%	\$1.58	2026
2026	\$1.58	3.10%	\$1.63	2027
2027	\$1.63	3.10%	\$1.68	2028
2028	\$1.68	3.10%	\$1.73	2029
2029	\$1.73	3.10%	\$1.78	2030
2030	\$1.78	3.10%	\$1.84	2031
2031	\$1.84	3.10%	\$1.89	2032
2032	\$1.89	3.10%	\$1.95	2033
2033	\$1.95	3.10%	\$2.01	2034
2034	\$2.01	3.10%	\$2.07	2035
2035	\$2.07			

5mg: \$1.77
10mg: \$0.94
Average: \$1.35

Source: Alexander

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Schedule: 2B. Treating Opioid Use Disorder- Medications 2021-2035

2B7. Naltrexone

Year	Number Receiving MAT- Naltrexone ¹	Average Cost Per Day of Naltrexone ¹	Number of days per year	Annual cost growth rate ²	Total Estimated Cost ⁵	Present Value
2021	44	\$44.50	365	3.097%	\$707,008	\$707,008
2022	46	\$45.88	365	3.097%	\$772,551	\$770,010
2023	49	\$47.30	365	3.097%	\$839,419	\$833,906
2024	51	\$48.76	365	3.097%	\$907,502	\$898,577
2025	53	\$50.28	365	3.097%	\$976,695	\$963,908
2026	55	\$51.83	365	3.097%	\$1,046,896	\$977,557
2027	57	\$53.44	365	3.097%	\$1,118,007	\$1,029,748
2028	59	\$55.09	365	3.097%	\$1,189,933	\$1,081,077
2029	61	\$56.80	365	3.097%	\$1,262,583	\$1,131,467
2030	63	\$58.56	365	3.097%	\$1,335,870	\$1,180,847
2031	64	\$60.37	365	3.097%	\$1,409,707	\$1,116,416
2032	65	\$62.24	365	3.097%	\$1,484,015	\$1,148,167
2033	67	\$64.17	365	3.097%	\$1,558,715	\$1,178,157
2034	68	\$66.16	365	3.097%	\$1,633,731	\$1,206,388
2035	69	\$68.20	365	3.097%	\$1,708,991	\$1,232,866
					\$17,951,623	\$15,456,099

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change⁵ = Number of individuals receiving MAT Naltrexone x average cost per day of Naltrexone x 365 days per year

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Schedule: 2E. Distributing Naloxone and Providing Training

2E5b. Narcan for Public Lock Boxes (Doses for boxes)

Year	Narcan Doses Needed for Public Lock Boxes ¹	Nasal Spray (Narcan) Single-Use Spray Cost ¹	Annual cost growth rate ²	Total Cost ⁷	Present Value
2021	391	\$59.94	3.097%	\$23,409	\$23,409
2022	0	\$61.80	3.097%	\$0	\$0
2023	0	\$63.71	3.097%	\$0	\$0
2024	391	\$65.68	3.097%	\$25,652	\$25,400
2025	0	\$67.72	3.097%	\$0	\$0
2026	0	\$69.81	3.097%	\$0	\$0
2027	391	\$71.98	3.097%	\$28,110	\$25,891
2028	0	\$74.21	3.097%	\$0	\$0
2029	0	\$76.50	3.097%	\$0	\$0
2030	391	\$78.87	3.097%	\$30,804	\$27,229
2031	0	\$81.32	3.097%	\$0	\$0
2032	0	\$83.83	3.097%	\$0	\$0
2033	391	\$86.43	3.097%	\$33,755	\$25,514
2034	0	\$89.11	3.097%	\$0	\$0
2035	0	\$91.87	3.097%	\$0	\$0
				\$141,731	\$127,443

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change⁷ = Number of Narcan doses needed for public lock boxes x nasal spray Narcan single-use spray cost

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2E5a. Naloxone Public Lock Boxes (Boxes)

CPI				
Med Care				
Commodities				
Year	Cost	Growth	Cost	Year
2020	\$0.00	2.316%	\$275.00	2021
2021	\$275.00	2.316%	\$281.37	2022
2022	\$281.37	2.316%	\$287.89	2023
2023	\$287.89	2.316%	\$294.55	2024
2024	\$294.55	2.316%	\$301.37	2025
2025	\$301.37	2.316%	\$308.35	2026
2026	\$308.35	2.316%	\$315.50	2027
2027	\$315.50	2.316%	\$322.80	2028
2028	\$322.80	2.316%	\$330.28	2029
2029	\$330.28	2.316%	\$337.93	2030
2030	\$337.93	2.316%	\$345.75	2031
2031	\$345.75	2.316%	\$353.76	2032
2032	\$353.76	2.316%	\$361.96	2033
2033	\$361.96	2.316%	\$370.34	2034
2034	\$370.34	2.316%	\$378.92	2035
2035	\$378.92			

Source: Alexander

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2B7. Naltrexone

Naltrexone: Cost per day

Cpl Rx				
Year	Cost	Growth	Cost	Year
2020	\$0.00	3.10%	\$44.50	2021
2021	\$44.50	3.10%	\$45.88	2022
2022	\$45.88	3.10%	\$47.30	2023
2023	\$47.30	3.10%	\$48.76	2024
2024	\$48.76	3.10%	\$50.28	2025
2025	\$50.28	3.10%	\$51.83	2026
2026	\$51.83	3.10%	\$53.44	2027
2027	\$53.44	3.10%	\$55.09	2028
2028	\$55.09	3.10%	\$56.80	2029
2029	\$56.80	3.10%	\$58.56	2030
2030	\$58.56	3.10%	\$60.37	2031
2031	\$60.37	3.10%	\$62.24	2032
2032	\$62.24	3.10%	\$64.17	2033
2033	\$64.17	3.10%	\$66.16	2034
2034	\$66.16	3.10%	\$68.20	2035
2035	\$68.20			

2021\$
 \$1,354 mo
 \$16,242.84 yr
 \$44.50 day

Source: Alexander

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Schedule: 28B. Assertive Community Treatment (ACT)

28B.1 Team Leaders

Year	Number of Team Leaders Required ¹	Median Wage of Team Leaders ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.7	\$39,108	26.7%	\$49,565	2.431%	\$33,710	\$33,710
2022	1.4	\$40,059	26.7%	\$50,770	2.431%	\$14,731	\$14,682
2023	1.4	\$41,032	26.7%	\$52,004	2.431%	\$15,367	\$15,266
2024	1.4	\$42,030	26.7%	\$53,269	2.431%	\$15,922	\$15,766
2025	1.4	\$43,052	26.7%	\$54,564	2.431%	\$16,395	\$16,180
2026	1.4	\$44,098	26.7%	\$55,890	2.431%	\$16,781	\$15,669
2027	1.4	\$45,170	26.7%	\$57,249	2.431%	\$17,078	\$15,730
2028	1.4	\$46,268	26.7%	\$58,641	2.431%	\$17,286	\$15,705
2029	1.4	\$47,393	26.7%	\$60,066	2.431%	\$17,402	\$15,595
2030	1.3	\$48,545	26.7%	\$61,526	2.431%	\$17,426	\$15,403
2031	1.3	\$49,725	26.7%	\$63,022	2.431%	\$17,356	\$13,745
2032	1.3	\$50,934	26.7%	\$64,554	2.431%	\$17,192	\$13,301
2033	1.2	\$52,172	26.7%	\$66,123	2.431%	\$16,935	\$12,800
2034	1.2	\$53,441	26.7%	\$67,731	2.431%	\$16,584	\$12,246
2035	1.1	\$54,740	26.7%	\$69,377	2.431%	\$16,140	\$11,643
						\$266,304	\$237,442

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics, Occupational Employment Statistics:

CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014)

⁶ = Total Team Leaders x Total Compensation

Schedule: 2E. Distributing Naloxone and Providing Training

2E5a. Naloxone Public Lock Boxes (Boxes)

Year	Number of Naloxone Public Lock Boxes ¹	Cost per Naloxone Public Lock Box (Excluding Narcan) ¹	Annual cost growth rate ⁵	Total Estimated Cost ⁶	Present Value
2021	195	\$275.00	2.316%	\$53,700	\$53,700
2022	0	\$281.37	2.316%	\$0	\$0
2023	0	\$287.89	2.316%	\$0	\$0
2024	0	\$294.55	2.316%	\$0	\$0
2025	0	\$301.37	2.316%	\$0	\$0
2026	0	\$308.35	2.316%	\$0	\$0
2027	0	\$315.50	2.316%	\$0	\$0
2028	0	\$322.80	2.316%	\$0	\$0
2029	0	\$330.28	2.316%	\$0	\$0
2030	0	\$337.93	2.316%	\$0	\$0
2031	0	\$345.75	2.316%	\$0	\$0
2032	0	\$353.76	2.316%	\$0	\$0
2033	0	\$361.96	2.316%	\$0	\$0
2034	0	\$370.34	2.316%	\$0	\$0
2035	0	\$378.92	2.316%	\$0	\$0
				\$53,700	\$53,700

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁵ U.S. Department of Labor, Bureau of Labor Statistics, Consumer Price Index, All Urban Consumers (CPI-U),

U.S. City Average -- Medical Care Commodities. 2009-2019 Annual Average Percent Change

⁶ = Number of Naloxone public lock boxes x cost per Naloxone lock box

2E4b. Narcan for Opioid Use Disorder Population (Narcan doses)
Nasal Spray (Narcan) Sing-Use Spray Cost

Year	Cost	Rx Growth	Cost	Year
2019	\$59.96	3.097%	\$61.82	2020
2020	\$61.82	3.097%	\$59.94	2021
2021	\$59.94	3.097%	\$61.80	2022
2022	\$61.80	3.097%	\$63.71	2023
2023	\$63.71	3.097%	\$65.68	2024
2024	\$65.68	3.097%	\$67.72	2025
2025	\$67.72	3.097%	\$69.81	2026
2026	\$69.81	3.097%	\$71.98	2027
2027	\$71.98	3.097%	\$74.21	2028
2028	\$74.21	3.097%	\$76.50	2029
2029	\$76.50	3.097%	\$78.87	2030
2030	\$78.87	3.097%	\$81.32	2031
2031	\$81.32	3.097%	\$83.83	2032
2032	\$83.83	3.097%	\$86.43	2033
2033	\$86.43	3.097%	\$89.11	2034
2034	\$89.11	3.097%	\$91.87	2035
2035	\$91.87			

Source: Alexander

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2B8.1 Team Leaders

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014) used for
 Number and Compensation of Community Liasons

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$17.92	cle	yng
Annual Hours:	2,080		
Median Annual Wage:	\$37,273.60		

Also Use for Liasons

Year	Wage	Growth	Wage	Year
2019	\$37,273.60	2.43%	\$38,179.72	2020
2020	\$38,179.72	2.43%	\$39,107.87	2021
2021	\$39,107.87	2.43%	\$40,058.58	2022
2022	\$40,058.58	2.43%	\$41,032.41	2023
2023	\$41,032.41	2.43%	\$42,029.90	2024
2024	\$42,029.90	2.43%	\$43,051.65	2025
2025	\$43,051.65	2.43%	\$44,098.24	2026
2026	\$44,098.24	2.43%	\$45,170.27	2027
2027	\$45,170.27	2.43%	\$46,268.35	2028
2028	\$46,268.35	2.43%	\$47,393.14	2029
2029	\$47,393.14	2.43%	\$48,545.27	2030
2030	\$48,545.27	2.43%	\$49,725.40	2031
2031	\$49,725.40	2.43%	\$50,934.23	2032
2032	\$50,934.23	2.43%	\$52,172.44	2033
2033	\$52,172.44	2.43%	\$53,440.75	2034
2034	\$53,440.75	2.43%	\$54,739.89	2035
2035	\$54,739.89	2.43%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 288. Assertive Community Treatment (ACT)

288.2 Psychiatrists

Year	Number of Psychiatrists Required ¹	Median Wage of Psychiatrists ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.7	\$157,220	26.7%	\$199,260	2.431%	\$135,520	\$135,520
2022	1.4	\$160,002	26.7%	\$202,787	2.431%	\$58,838	\$58,644
2023	1.4	\$162,834	26.7%	\$206,376	2.431%	\$60,982	\$60,582
2024	1.4	\$165,717	26.7%	\$210,029	2.431%	\$62,779	\$62,162
2025	1.4	\$168,650	26.7%	\$213,747	2.431%	\$64,224	\$63,383
2026	1.4	\$171,635	26.7%	\$217,530	2.431%	\$65,312	\$60,986
2027	1.4	\$174,673	26.7%	\$221,380	2.431%	\$66,042	\$60,828
2028	1.4	\$177,765	26.7%	\$225,299	2.431%	\$66,413	\$60,338
2029	1.4	\$180,911	26.7%	\$229,287	2.431%	\$66,428	\$59,529
2030	1.3	\$184,113	26.7%	\$233,345	2.431%	\$66,088	\$58,419
2031	1.3	\$187,372	26.7%	\$237,475	2.431%	\$65,399	\$51,792
2032	1.3	\$190,688	26.7%	\$241,678	2.431%	\$64,365	\$49,798
2033	1.2	\$194,064	26.7%	\$245,956	2.431%	\$62,992	\$47,613
2034	1.2	\$197,499	26.7%	\$250,310	2.431%	\$61,289	\$45,258
2035	1.1	\$200,994	26.7%	\$254,740	2.431%	\$59,263	\$42,752
						\$1,025,933	\$917,604

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Psychiatrists (SOC 29-1223)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Psychiatrists SOC 29-1223)⁶ = Total Psychiatrists x Total Compensation

Schedule: 2E. Distributing Naloxone and Providing Training

2E4b. Narcan for Opioid Use Disorder Population (Narcan doses)

Year	Number of Narcan Doses for OUD Population ¹	Nasal Spray (Narcan) Single-Use Spray Cost ¹	Annual cost growth rate ²	Total Cost ⁴	Present Value
2021	2,888	\$59.94	3.097%	\$173,122	\$173,122
2022	3,054	\$61.80	3.097%	\$188,736	\$188,115
2023	3,199	\$63.71	3.097%	\$203,832	\$202,493
2024	3,325	\$65.68	3.097%	\$218,421	\$216,273
2025	3,434	\$67.72	3.097%	\$232,516	\$229,472
2026	3,525	\$69.81	3.097%	\$246,128	\$229,826
2027	3,602	\$71.98	3.097%	\$259,268	\$238,801
2028	3,665	\$74.21	3.097%	\$271,949	\$247,071
2029	3,715	\$76.50	3.097%	\$284,180	\$254,669
2030	3,753	\$78.87	3.097%	\$295,974	\$261,627
2031	3,780	\$81.32	3.097%	\$307,339	\$243,397
2032	3,797	\$83.83	3.097%	\$318,287	\$246,256
2033	3,805	\$86.43	3.097%	\$328,828	\$248,545
2034	3,804	\$89.11	3.097%	\$338,972	\$250,305
2035	3,796	\$91.87	3.097%	\$348,728	\$251,572
				\$4,016,280	\$3,481,544

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change

2E4a. Naloxone for High-Risk Patients (Take Home Kits)
Take-Home Kit Cost

Year	Cost	Rx Growth	Cost	Year
2020	\$0.00	3.097%	\$8.19	2021
2021	\$8.19	3.097%	\$8.44	2022
2022	\$8.44	3.097%	\$8.71	2023
2023	\$8.71	3.097%	\$8.97	2024
2024	\$8.97	3.097%	\$9.25	2025
2025	\$9.25	3.097%	\$9.54	2026
2026	\$9.54	3.097%	\$9.83	2027
2027	\$9.83	3.097%	\$10.14	2028
2028	\$10.14	3.097%	\$10.45	2029
2029	\$10.45	3.097%	\$10.78	2030
2030	\$10.78	3.097%	\$11.11	2031
2031	\$11.11	3.097%	\$11.45	2032
2032	\$11.45	3.097%	\$11.81	2033
2033	\$11.81	3.097%	\$12.18	2034
2034	\$12.18	3.097%	\$12.55	2035
2035	\$12.55			

Source: Alexander

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2B8.2 Psychiatrists

CLE				
29-1223	Psychiatrists	2019\$	\$	72.98
		CPI	\$	151,798
		Medical Care Services		
Year	Cost	Growth	Cost	Year
2019	\$151,798.40	1.770%	\$154,485.23	2020
2020	\$154,485.23	1.770%	\$157,219.62	2021
2021	\$157,219.62	1.770%	\$160,002.41	2022
2022	\$160,002.41	1.770%	\$162,834.45	2023
2023	\$162,834.45	1.770%	\$165,716.62	2024
2024	\$165,716.62	1.770%	\$168,649.80	2025
2025	\$168,649.80	1.770%	\$171,634.91	2026
2026	\$171,634.91	1.770%	\$174,672.84	2027
2027	\$174,672.84	1.770%	\$177,764.55	2028
2028	\$177,764.55	1.770%	\$180,910.99	2029
2029	\$180,910.99	1.770%	\$184,113.11	2030
2030	\$184,113.11	1.770%	\$187,371.91	2031
2031	\$187,371.91	1.770%	\$190,688.39	2032
2032	\$190,688.39	1.770%	\$194,063.58	2033
2033	\$194,063.58	1.770%	\$197,498.50	2034
2034	\$197,498.50	1.770%	\$200,994.23	2035
2035	\$200,994.23	1.770%	\$204,551.83	2036

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2B8. Assertive Community Treatment (ACT)

2B8.3 Psychiatric Nurse

Year	Number of Psychiatric Nurses Required ¹	Median Wage of Psychiatric Nurses ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.7	\$72,303	26.7%	\$91,637	1.277%	\$62,324	\$62,324
2022	1.4	\$73,226	26.7%	\$92,807	1.277%	\$26,928	\$26,839
2023	1.4	\$74,161	26.7%	\$93,992	1.277%	\$27,774	\$27,591
2024	1.4	\$75,108	26.7%	\$95,193	1.277%	\$28,454	\$28,174
2025	1.4	\$76,068	26.7%	\$96,408	1.277%	\$28,967	\$28,588
2026	1.4	\$77,039	26.7%	\$97,639	1.277%	\$29,315	\$27,374
2027	1.4	\$78,023	26.7%	\$98,886	1.277%	\$29,499	\$27,171
2028	1.4	\$79,019	26.7%	\$100,149	1.277%	\$29,522	\$26,821
2029	1.4	\$80,028	26.7%	\$101,428	1.277%	\$29,385	\$26,334
2030	1.3	\$81,050	26.7%	\$102,723	1.277%	\$29,093	\$25,717
2031	1.3	\$82,085	26.7%	\$104,035	1.277%	\$28,650	\$22,690
2032	1.3	\$83,133	26.7%	\$105,363	1.277%	\$28,061	\$21,710
2033	1.2	\$84,195	26.7%	\$106,709	1.277%	\$27,329	\$20,657
2034	1.2	\$85,270	26.7%	\$108,071	1.277%	\$26,462	\$19,540
2035	1.1	\$86,359	26.7%	\$109,452	1.277%	\$25,463	\$18,369
						\$457,226	\$409,898

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Psychiatric Nurses (SOC 29-1141)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Psychiatric Nurses SOC 29-1141)⁶ = Total Psychiatric Nurses x Total Compensation

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Schedule: 2E. Distributing Naloxone and Providing Training

2E4a. Naloxone for High-Risk Patients (Take Home Kits)

Year	Number of Take-Home Kits for OUD Population ¹	Cost per Take- Home Kit ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	1,444	\$8.19	3.097%	\$11,827	\$11,827
2022	1,527	\$8.44	3.097%	\$12,894	\$12,852
2023	1,600	\$8.71	3.097%	\$13,925	\$13,834
2024	1,653	\$8.97	3.097%	\$14,922	\$14,775
2025	1,717	\$9.25	3.097%	\$15,885	\$15,677
2026	1,753	\$9.54	3.097%	\$16,815	\$15,701
2027	1,801	\$9.83	3.097%	\$17,713	\$16,314
2028	1,832	\$10.14	3.097%	\$18,579	\$16,879
2029	1,857	\$10.45	3.097%	\$19,415	\$17,399
2030	1,876	\$10.78	3.097%	\$20,220	\$17,874
2031	1,890	\$11.11	3.097%	\$20,997	\$16,628
2032	1,898	\$11.45	3.097%	\$21,745	\$16,824
2033	1,902	\$11.81	3.097%	\$22,465	\$16,980
2034	1,902	\$12.18	3.097%	\$23,158	\$17,100
2035	1,898	\$12.55	3.097%	\$23,824	\$17,187
				\$274,385	\$237,853

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change³ = Number of take-home kits for OUD population x cost per take-home kit

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2E3. Injectable Naloxone for Emergency Departments

First Responders Naloxone

PDMS				
Year	Cost	Growth	Cost	Year
2020	\$0.00	0.000%	\$11.21	2021
2021	\$11.21	3.097%	\$11.56	2022
2022	\$11.56	3.097%	\$11.92	2023
2023	\$11.92	3.097%	\$12.28	2024
2024	\$12.28	3.097%	\$12.66	2025
2025	\$12.66	3.097%	\$13.06	2026
2026	\$13.06	3.097%	\$13.46	2027
2027	\$13.46	3.097%	\$13.88	2028
2028	\$13.88	3.097%	\$14.31	2029
2029	\$14.31	3.097%	\$14.75	2030
2030	\$14.75	3.097%	\$15.21	2031
2031	\$15.21	3.097%	\$15.68	2032
2032	\$15.68	3.097%	\$16.16	2033
2033	\$16.16	3.097%	\$16.66	2034
2034	\$16.66	3.097%	\$17.18	2035
2035	\$17.18			

Source: Alexander

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2B8.3 Psychiatric Nurse

area_title	occ_code	occ_title	h_median	
Cleveland-Elyria, OH	29-1141	Registered Nurses	\$ 33.89	\$ 70,491
Youngstown-Warren-Boardman, OH-PA	29-1141	Registered Nurses	\$ 28.13	\$ 58,510

Year	Cost	Growth	Cost	Year
2019	\$70,491	1.277%	\$71,391	2020
2020	\$71,391	1.277%	\$72,303	2021
2021	\$72,303	1.277%	\$73,226	2022
2022	\$73,226	1.277%	\$74,161	2023
2023	\$74,161	1.277%	\$75,108	2024
2024	\$75,108	1.277%	\$76,068	2025
2025	\$76,068	1.277%	\$77,039	2026
2026	\$77,039	1.277%	\$78,023	2027
2027	\$78,023	1.277%	\$79,019	2028
2028	\$79,019	1.277%	\$80,028	2029
2029	\$80,028	1.277%	\$81,050	2030
2030	\$81,050	1.277%	\$82,085	2031
2031	\$82,085	1.277%	\$83,133	2032
2032	\$83,133	1.277%	\$84,195	2033
2033	\$84,195	1.277%	\$85,270	2034
2034	\$85,270	1.277%	\$86,359	2035
2035	\$86,359	1.277%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 288. Assertive Community Treatment (ACT)

288.4 Addiction Counselor

Year	Number of Addiction Counselors Required ¹	Median Wage of Addiction Counselors ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	1.4	\$48,359	26.7%	\$61,291	1.970%	\$83,369	\$83,369
2022	2.8	\$49,312	26.7%	\$62,498	1.970%	\$36,267	\$36,148
2023	2.8	\$50,283	26.7%	\$63,729	1.970%	\$37,663	\$37,415
2024	2.8	\$51,274	26.7%	\$64,985	1.970%	\$38,849	\$38,467
2025	2.8	\$52,284	26.7%	\$66,265	1.970%	\$39,821	\$39,299
2026	2.8	\$53,314	26.7%	\$67,570	1.970%	\$40,575	\$37,888
2027	2.8	\$54,364	26.7%	\$68,901	1.970%	\$41,109	\$37,864
2028	2.8	\$55,435	26.7%	\$70,259	1.970%	\$41,421	\$37,632
2029	2.7	\$56,527	26.7%	\$71,643	1.970%	\$41,512	\$37,201
2030	2.7	\$57,641	26.7%	\$73,054	1.970%	\$41,381	\$36,579
2031	2.6	\$58,777	26.7%	\$74,493	1.970%	\$41,030	\$32,493
2032	2.5	\$59,934	26.7%	\$75,961	1.970%	\$40,460	\$31,304
2033	2.4	\$61,115	26.7%	\$77,457	1.970%	\$39,676	\$29,989
2034	2.3	\$62,319	26.7%	\$78,983	1.970%	\$38,679	\$28,561
2035	2.2	\$63,547	26.7%	\$80,539	1.970%	\$37,474	\$27,033
						\$639,285	\$571,243

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Substance Abuse, Behavioral Disorder, and Mental Health Counselors (SOC 21-1018)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent ofTotal Compensation: Civilian workers, by major occupational and industry group, 2002-2019
economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics:
CLE & YNG Metropolitan Statistical Areas. May 2019 (Addiction Counselors SOC 21-1018)⁶ = Total Addiction Counselors x Total Compensation

Schedule: 2E. Distributing Naloxone and Providing Training

2E3. Injectable Naloxone for Emergency Departments

Year	Number of Generic Injectable Naloxone Doses for EDs ¹	Cost per Generic Injectable Naloxone Dose ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	892	\$11.21	3.097%	\$10,000	\$10,000
2022	852	\$11.56	3.097%	\$9,847	\$9,815
2023	814	\$11.92	3.097%	\$9,696	\$9,633
2024	777	\$12.28	3.097%	\$9,548	\$9,454
2025	742	\$12.66	3.097%	\$9,402	\$9,279
2026	709	\$13.06	3.097%	\$9,258	\$8,645
2027	677	\$13.46	3.097%	\$9,116	\$8,396
2028	647	\$13.88	3.097%	\$8,976	\$8,155
2029	618	\$14.31	3.097%	\$8,839	\$7,921
2030	590	\$14.75	3.097%	\$8,704	\$7,694
2031	564	\$15.21	3.097%	\$8,570	\$6,787
2032	538	\$15.68	3.097%	\$8,439	\$6,529
2033	514	\$16.16	3.097%	\$8,310	\$6,281
2034	491	\$16.66	3.097%	\$8,183	\$6,042
2035	469	\$17.18	3.097%	\$8,057	\$5,813
				\$134,946	\$120,444

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All
Urban Consumers (CPI-U), U.S. City Average --
Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change³ = Number of generic injectable Naloxone doses for emergency departments x
cost per generic injectable Naloxone dose

2E2. Narcan for First Responders

First Responders Nasal Spray (Narcan) Single Use Spray

Year	CPI- Rx		Cost	Year
	Cost	Growth		
2020	\$37.50	3.097%	\$38.66	2021
2021	\$38.66	3.097%	\$39.86	2022
2022	\$39.86	3.097%	\$41.09	2023
2023	\$41.09	3.097%	\$42.37	2024
2024	\$42.37	3.097%	\$43.68	2025
2025	\$43.68	3.097%	\$45.03	2026
2026	\$45.03	3.097%	\$46.43	2027
2027	\$46.43	3.097%	\$47.86	2028
2028	\$47.86	3.097%	\$49.35	2029
2029	\$49.35	3.097%	\$50.87	2030
2030	\$50.87	3.097%	\$52.45	2031
2031	\$52.45	3.097%	\$54.07	2032
2032	\$54.07	3.097%	\$55.75	2033
2033	\$55.75	3.097%	\$57.47	2034
2034	\$57.47	3.097%	\$59.25	2035
2035	\$59.25			

Source: Alexander

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2B8.4 Addiction Counselor

CLE-Youngstown MSA May 2019

Median Hourly Wage:

\$22.36

Annual Hours:

2,080

Median Annual Wage:

\$46,508.80

cle yng

22.36

20.17

ECI Health
& Social
Assistance

Year	Wage	Growth	Wage	Year
2019	\$46,508.80	1.97%	\$47,425.02	2020
2020	\$47,425.02	1.97%	\$48,359.30	2021
2021	\$48,359.30	1.97%	\$49,311.97	2022
2022	\$49,311.97	1.97%	\$50,283.42	2023
2023	\$50,283.42	1.97%	\$51,274.00	2024
2024	\$51,274.00	1.97%	\$52,284.10	2025
2025	\$52,284.10	1.97%	\$53,314.10	2026
2026	\$53,314.10	1.97%	\$54,364.39	2027
2027	\$54,364.39	1.97%	\$55,435.36	2028
2028	\$55,435.36	1.97%	\$56,527.44	2029
2029	\$56,527.44	1.97%	\$57,641.03	2030
2030	\$57,641.03	1.97%	\$58,776.56	2031
2031	\$58,776.56	1.97%	\$59,934.46	2032
2032	\$59,934.46	1.97%	\$61,115.17	2033
2033	\$61,115.17	1.97%	\$62,319.14	2034
2034	\$62,319.14	1.97%	\$63,546.82	2035
2035	\$63,546.82	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2B8. Assertive Community Treatment (ACT)
2B8.5 Peer Recovery Coach

Year	Number of Peer Coaches Required ¹	Median Wage of Peer Coach ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.7	\$19,465	26.7%	\$19,848	1.97%	\$13,499	\$13,499
2022	1.4	\$19,848	26.7%	\$20,239	1.97%	\$7,299	\$7,275
2023	1.4	\$20,239	26.7%	\$20,638	1.97%	\$7,580	\$7,530
2024	1.4	\$20,638	26.7%	\$21,045	1.97%	\$7,818	\$7,742
2025	1.4	\$21,045	26.7%	\$21,459	1.97%	\$8,014	\$7,909
2026	1.4	\$21,459	26.7%	\$21,882	1.97%	\$8,166	\$7,625
2027	1.4	\$21,882	26.7%	\$22,313	1.97%	\$8,273	\$7,620
2028	1.4	\$22,313	26.7%	\$22,753	1.97%	\$8,336	\$7,574
2029	1.4	\$22,753	26.7%	\$23,201	1.97%	\$8,354	\$7,487
2030	1.3	\$23,201	26.7%	\$23,658	1.97%	\$8,328	\$7,352
2031	1.3	\$23,658	26.7%	\$24,124	1.97%	\$8,257	\$6,539
2032	1.3	\$24,124	26.7%	\$24,599	1.97%	\$8,143	\$6,300
2033	1.2	\$24,599	26.7%	\$25,084	1.97%	\$7,985	\$6,035
2034	1.2	\$25,084	26.7%	\$25,578	1.97%	\$7,784	\$5,748
2035	1.1	\$25,578	26.7%	\$26,082	1.97%	\$7,542	\$5,441
						\$125,378	\$111,685

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Assumed \$9.00 per hour.

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = wages + Fringe benefits.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Health & Social Assistance. 2009-2019 Annual Average Percent Change

⁶ = Total Peer Recovery Coaches x Total Compensation

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Schedule: 2E. Distributing Naloxone and Providing Training
2E2. Narcan for First Responders

	Number of Narcan Doses for First Responders ¹	Cost per Narcan Dose for First Responders ¹	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	4,776	\$38.66	3.097%	\$184,631	\$184,631
2022	4,779	\$39.86	3.097%	\$190,493	\$189,867
2023	4,783	\$41.09	3.097%	\$196,542	\$195,251
2024	4,786	\$42.37	3.097%	\$202,782	\$200,788
2025	4,790	\$43.68	3.097%	\$209,221	\$206,482
2026	4,794	\$45.03	3.097%	\$215,865	\$201,567
2027	4,797	\$46.43	3.097%	\$222,719	\$205,137
2028	4,801	\$47.86	3.097%	\$229,791	\$208,769
2029	4,805	\$49.35	3.097%	\$237,087	\$212,466
2030	4,808	\$50.87	3.097%	\$244,615	\$216,229
2031	4,812	\$52.45	3.097%	\$252,383	\$199,874
2032	4,816	\$54.07	3.097%	\$260,396	\$201,466
2033	4,819	\$55.75	3.097%	\$268,665	\$203,071
2034	4,823	\$57.47	3.097%	\$277,196	\$204,688
2035	4,827	\$59.25	3.097%	\$285,997	\$206,318
				\$3,478,384	\$3,036,605

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change

⁶ = Number of Narcan doses for first responders x cost per Narcan dose for first responders

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2E1. First Responders Training
 CLE MSA & YNG MSA, May 2019.
 Narcan Training for First Responders
 SOC Title
 29-2040 Emergency Medical Technicians and Paramedics
 33-2011 Firefighters
 33-3051 Police and Sheriff's Patrol Officers

Employed	Percent	Wage	Weighted	Yng	%	Weighted
1,700	16.44%	\$18.94	\$3.11	Yng	Employment	
3,720	35.98%	\$25.42	\$9.15	cde		
4,920	47.58%	\$29.33	\$13.96			
10,340	100.00%		\$26.22			

Median Hourly Wage:

\$16.98

ECI State
& Local
Gov

Year	Wage	Growth	Wage	Year
2019	\$16.98	2.939%	\$17.48	2020
2020	\$17.48	2.092%	\$17.84	2021
2021	#####	2.092%	\$18.22	2022
2022	\$18.22	2.092%	\$18.60	2023
2023	\$18.60	2.092%	\$18.99	2024
2024	\$18.99	2.092%	\$19.39	2025
2025	\$19.39	2.092%	\$19.79	2026
2026	\$19.79	2.092%	\$20.21	2027
2027	\$20.21	2.092%	\$20.63	2028
2028	\$20.63	2.092%	\$21.06	2029
2029	\$21.06	2.092%	\$21.50	2030
2030	\$21.50	2.092%	\$21.95	2031
2031	\$21.95	2.092%	\$22.41	2032
2032	\$22.41	2.092%	\$22.88	2033
2033	\$22.88	2.092%	\$23.36	2034
2034	\$23.36	2.092%	\$23.85	2035

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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2B8.5 Peer Recovery Coach

Median Annual Wage of Peer Recovery Coaches

Hourly Wage: \$9.00
 Annual Hours: 2,080
 Median Annual Wage: \$18,720.00

ECI Health Wkr				
Year	Wage	Growth	Wage	Year
2019	\$18,720.00	1.97%	\$19,088.78	2020
2020	\$19,088.78	1.97%	\$19,464.83	2021
2021	\$19,464.83	1.97%	\$19,848.29	2022
2022	\$19,848.29	1.97%	\$20,239.30	2023
2023	\$20,239.30	1.97%	\$20,638.02	2024
2024	\$20,638.02	1.97%	\$21,044.58	2025
2025	\$21,044.58	1.97%	\$21,459.16	2026
2026	\$21,459.16	1.97%	\$21,881.91	2027
2027	\$21,881.91	1.97%	\$22,312.98	2028
2028	\$22,312.98	1.97%	\$22,752.55	2029
2029	\$22,752.55	1.97%	\$23,200.77	2030
2030	\$23,200.77	1.97%	\$23,657.83	2031
2031	\$23,657.83	1.97%	\$24,123.89	2032
2032	\$24,123.89	1.97%	\$24,599.13	2033
2033	\$24,599.13	1.97%	\$25,083.73	2034
2034	\$25,083.73	1.97%	\$25,577.88	2035
2035	\$25,577.88	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 288. Assertive Community Treatment (ACT)

288.6 Program Assistants

Year	Number of Program Assistants Required ¹	Median Wage of Program Assistants ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.7	\$39,108	26.7%	\$49,565	2.431%	\$33,710	\$33,710
2022	1.4	\$40,059	26.7%	\$50,770	2.431%	\$14,731	\$14,682
2023	1.4	\$41,032	26.7%	\$52,004	2.431%	\$15,367	\$15,266
2024	1.4	\$42,030	26.7%	\$53,269	2.431%	\$15,922	\$15,766
2025	1.4	\$43,052	26.7%	\$54,564	2.431%	\$16,395	\$16,180
2026	1.4	\$44,098	26.7%	\$55,890	2.431%	\$16,781	\$15,669
2027	1.4	\$45,170	26.7%	\$57,249	2.431%	\$17,078	\$15,730
2028	1.4	\$46,268	26.7%	\$58,641	2.431%	\$17,286	\$15,705
2029	1.4	\$47,393	26.7%	\$60,066	2.431%	\$17,402	\$15,595
2030	1.3	\$48,545	26.7%	\$61,526	2.431%	\$17,426	\$15,403
2031	1.3	\$49,725	26.7%	\$63,022	2.431%	\$17,356	\$13,745
2032	1.3	\$50,934	26.7%	\$64,554	2.431%	\$17,192	\$13,301
2033	1.2	\$52,172	26.7%	\$66,123	2.431%	\$16,935	\$12,800
2034	1.2	\$53,441	26.7%	\$67,731	2.431%	\$16,584	\$12,246
2035	1.1	\$54,740	26.7%	\$69,377	2.431%	\$16,140	\$11,643
						\$266,304	\$237,442

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014)⁶ = Total Program Assistants x Total Compensation

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Schedule: 2E. Distributing Naloxone and Providing Training

2E1. First Responders Training

Year	Number of Hours for First Responder Training	Weighted Average Median Hourly Wage of First Responders ²	Annual growth rate ³	Total Cost ⁴	Present Value
2021	4,776	\$17.84	2.092%	\$85,220	\$85,220
2022	1,198	\$18.22	2.092%	\$21,833	\$21,761
2023	1,199	\$18.60	2.092%	\$22,307	\$22,160
2024	1,200	\$18.99	2.092%	\$22,791	\$22,567
2025	1,201	\$19.39	2.092%	\$23,285	\$22,981
2026	1,202	\$19.79	2.092%	\$23,791	\$22,215
2027	1,203	\$20.21	2.092%	\$24,307	\$22,388
2028	1,204	\$20.63	2.092%	\$24,834	\$22,562
2029	1,205	\$21.06	2.092%	\$25,373	\$22,738
2030	1,206	\$21.50	2.092%	\$25,923	\$22,915
2031	1,207	\$21.95	2.092%	\$26,486	\$20,975
2032	1,208	\$22.41	2.092%	\$27,060	\$20,936
2033	1,208	\$22.88	2.092%	\$27,647	\$20,897
2034	1,209	\$23.36	2.092%	\$28,247	\$20,858
2035	1,210	\$23.85	2.092%	\$28,860	\$20,820
				\$437,965	\$391,994

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019.³ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, State and Local Government Workers. 2009-2019 Annual Average Percent Change⁴ = Total number of hours for first responder training x weighted average median hourly wage of first responders

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2D4. Pain treatment specialists
Pain Specialist soc-29-1228

occ_code	occ_title	tot_emp	h_mean	a_mean	h_median	a_median	area_title
29-1228	Physicians, All Other, ai	670	79.89	166170	77.13	160430	Youngstown-Warren-Boardman, OH-PA
		5640	96.52	200760	99.47	206890	Cleveland-Elyria, OH
Grand Total							

YNG \$ 160,430

\$ 77.13
\$ 99.47
\$ 176.60

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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288.6 Program Assistants

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014) used for
Number and Compensation of Community Liasons

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$17.92	cle	yng
Annual Hours:	2,080		
Median Annual Wage:	\$37,273.60		

Also Use for Liasons

Year	Wage	Growth	Wage	Year
2019	\$37,273.60	2.43%	\$38,179.72	2020
2020	\$38,179.72	2.43%	\$39,107.87	2021
2021	\$39,107.87	2.43%	\$40,058.58	2022
2022	\$40,058.58	2.43%	\$41,032.41	2023
2023	\$41,032.41	2.43%	\$42,029.90	2024
2024	\$42,029.90	2.43%	\$43,051.65	2025
2025	\$43,051.65	2.43%	\$44,098.24	2026
2026	\$44,098.24	2.43%	\$45,170.27	2027
2027	\$45,170.27	2.43%	\$46,268.35	2028
2028	\$46,268.35	2.43%	\$47,393.14	2029
2029	\$47,393.14	2.43%	\$48,545.27	2030
2030	\$48,545.27	2.43%	\$49,725.40	2031
2031	\$49,725.40	2.43%	\$50,934.23	2032
2032	\$50,934.23	2.43%	\$52,172.44	2033
2033	\$52,172.44	2.43%	\$53,440.75	2034
2034	\$53,440.75	2.43%	\$54,739.89	2035
2035	\$54,739.89	2.43%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2B8. Assertive Community Treatment (ACT)

2B8.7 Social Workers

Year	Number of Social Workers Required ¹	Median Wage of Social Workers ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.7	\$41,201	26.7%	\$52,218	1.97%	\$35,514	\$35,514
2022	1.4	\$42,012	26.7%	\$53,246	1.97%	\$15,449	\$15,398
2023	1.4	\$42,840	26.7%	\$54,295	1.97%	\$16,044	\$15,938
2024	1.4	\$43,684	26.7%	\$55,365	1.97%	\$16,549	\$16,386
2025	1.4	\$44,544	26.7%	\$56,456	1.97%	\$16,963	\$16,741
2026	1.4	\$45,422	26.7%	\$57,568	1.97%	\$17,284	\$16,139
2027	1.4	\$46,317	26.7%	\$58,702	1.97%	\$17,512	\$16,129
2028	1.4	\$47,229	26.7%	\$59,858	1.97%	\$17,645	\$16,031
2029	1.4	\$48,160	26.7%	\$61,037	1.97%	\$17,683	\$15,847
2030	1.3	\$49,108	26.7%	\$62,240	1.97%	\$17,628	\$15,582
2031	1.3	\$50,076	26.7%	\$63,466	1.97%	\$17,478	\$13,842
2032	1.3	\$51,062	26.7%	\$64,716	1.97%	\$17,235	\$13,335
2033	1.2	\$52,068	26.7%	\$65,991	1.97%	\$16,901	\$12,775
2034	1.2	\$53,094	26.7%	\$67,291	1.97%	\$16,477	\$12,167
2035	1.1	\$54,140	26.7%	\$68,617	1.97%	\$15,963	\$11,516
						\$272,325	\$243,340

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)⁶ = Total Social Workers x Total Compensation

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Schedule: 2D. Workforce Expansion and Resiliency

2D4. Pain treatment specialists

Year	Number of Pain treatment specialists needed ¹	cost per pain specialist ¹²	Annual cost growth rate ¹⁰	Total Cost ¹¹	Present Value
2021	6.0	\$160,430	1.770%	\$958,776	\$958,776
2022	6.0	\$163,270	1.770%	\$975,747	\$972,537
2023	6.0	\$166,160	1.770%	\$993,017	\$986,496
2024	6.0	\$169,101	1.770%	\$1,010,594	\$1,000,655
2025	6.0	\$172,094	1.770%	\$1,028,481	\$1,015,017
2026	6.0	\$175,140	1.770%	\$1,046,685	\$977,360
2027	6.0	\$178,240	1.770%	\$1,065,212	\$981,120
2028	6.0	\$181,395	1.770%	\$1,084,066	\$984,894
2029	6.0	\$184,606	1.770%	\$1,103,254	\$988,683
2030	6.0	\$187,873	1.770%	\$1,122,782	\$992,487
2031	6.0	\$191,198	1.770%	\$1,142,655	\$904,924
2032	6.0	\$194,583	1.770%	\$1,162,880	\$899,708
2033	6.0	\$198,027	1.770%	\$1,183,463	\$894,522
2034	6.0	\$201,532	1.770%	\$1,204,410	\$889,366
2035	6.0	\$205,099	1.770%	\$1,225,728	\$884,240
				\$16,307,750	\$14,330,788

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change¹¹ = Number of pain treatment specialists to recruit x cost per pain specialist¹² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG OH, Metropolitan Statistical Area. cost per specialist \$77.13 per hour x 2080 hours (SOC 29-1228)

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2D3. Reducing Burnout / Compassion Fatigue**Compassion Fatigue Costs Per First Responder****Monument Analytics**

Source 1: \$523 in 2019 dollars 2.56% = \$536.39 in 2020 dollars
 Source 2: \$575.00 in 2020 dollars
 Source 3: \$495.00 in 2020 dollars
 \$535.46 Average

Year	Wage	Growth	Wage	Year
2020	\$535.46	1.714%	<u>\$544.64</u>	2021
2021	\$544.64	1.714%	<u>\$553.98</u>	2022
2022	\$553.98	1.714%	<u>\$563.47</u>	2023
2023	\$563.47	1.714%	<u>\$573.13</u>	2024
2024	\$573.13	1.714%	<u>\$582.95</u>	2025
2025	\$582.95	1.714%	<u>\$592.94</u>	2026
2026	\$592.94	1.714%	<u>\$603.11</u>	2027
2027	\$603.11	1.714%	<u>\$613.44</u>	2028
2028	\$613.44	1.714%	<u>\$623.96</u>	2029
2029	\$623.96	1.714%	<u>\$634.65</u>	2030
2030	\$634.65	1.714%	<u>\$645.53</u>	2031
2031	\$645.53	1.714%	<u>\$656.60</u>	2032
2032	\$656.60	1.714%	<u>\$667.85</u>	2033
2033	\$667.85	1.714%	<u>\$679.30</u>	2034
2034	\$679.30	1.714%	<u>\$690.94</u>	2035
2035	\$690.94			

Source: Alexander

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2B8.7 Social Workers**Substance Abuse Social Worker**

Median Annual Wage of Licensed Clinical Social Worker-Level Staff
 Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)
 CLE MSA & YNG MSA, May 2019

Median Hourly Wage: \$19.05
 Annual Hours: 2,080
 Median Annual Wage: \$39,624.00

cle yng
 \$ 19.05 \$ 18.35

ECI Prof Wkrs				
Year	Wage	Growth	Wage	Year
2019	<u>\$39,624.00</u>	1.97%	\$40,404.59	2020
2020	\$40,404.59	1.97%	<u>\$41,200.56</u>	2021
2021	\$41,200.56	1.97%	<u>\$42,012.21</u>	2022
2022	\$42,012.21	1.97%	<u>\$42,839.85</u>	2023
2023	\$42,839.85	1.97%	<u>\$43,683.80</u>	2024
2024	\$43,683.80	1.97%	<u>\$44,544.37</u>	2025
2025	\$44,544.37	1.97%	<u>\$45,421.90</u>	2026
2026	\$45,421.90	1.97%	<u>\$46,316.71</u>	2027
2027	\$46,316.71	1.97%	<u>\$47,229.15</u>	2028
2028	\$47,229.15	1.97%	<u>\$48,159.56</u>	2029
2029	\$48,159.56	1.97%	<u>\$49,108.30</u>	2030
2030	\$49,108.30	1.97%	<u>\$50,075.74</u>	2031
2031	\$50,075.74	1.97%	<u>\$51,062.23</u>	2032
2032	\$51,062.23	1.97%	<u>\$52,068.15</u>	2033
2033	\$52,068.15	1.97%	<u>\$53,093.90</u>	2034
2034	\$53,093.90	1.97%	<u>\$54,139.85</u>	2035
2035	\$54,139.85	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035
2C1. HCV / HIV Screening

Year	Opioid injection drug users to be screened ¹	HCV / HIV Screening Cost per Case ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	800	\$85.88		\$68,681	\$68,681
2022	782	\$88.61	3.181%	\$69,297	\$69,069
2023	764	\$91.43	3.181%	\$69,879	\$69,421
2024	747	\$94.34	3.181%	\$70,431	\$69,738
2025	729	\$97.34	3.181%	\$70,951	\$70,023
2026	711	\$100.43	3.181%	\$71,442	\$66,710
2027	694	\$103.63	3.181%	\$71,904	\$66,227
2028	677	\$106.92	3.181%	\$72,337	\$65,719
2029	659	\$110.33	3.181%	\$72,742	\$65,188
2030	642	\$113.84	3.181%	\$73,121	\$64,635
2031	626	\$117.46	3.181%	\$73,473	\$58,187
2032	609	\$121.19	3.181%	\$73,799	\$57,098
2033	593	\$125.05	3.181%	\$74,101	\$56,009
2034	576	\$129.03	3.181%	\$74,378	\$54,923
2035	561	\$133.13	3.181%	\$74,632	\$53,839
				\$1,081,169	\$955,468

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Percent Change

³ = Number of HIV / HCV screening population × HIV / HCV screening cost per case

Schedule: 2D. Workforce Expansion and Resiliency
2D3. Reducing Burnout / Compassion Fatigue

Year	Number of Professionals to Receive Compassion Fatigue Interventions ¹	Compassion fatigue interventions cost per Professional ¹	Annual growth rate ¹⁰	Total Cost ¹¹	Present Value
2021	342	\$545		\$186,142	\$186,142
2022	324	\$554	1.714%	\$179,363	\$178,773
2023	306	\$563	1.714%	\$172,271	\$171,139
2024	288	\$573	1.714%	\$164,857	\$163,236
2025	270	\$583	1.714%	\$157,112	\$155,055
2026	251	\$593	1.714%	\$149,027	\$139,156
2027	233	\$603	1.714%	\$140,590	\$129,491
2028	215	\$613	1.714%	\$131,792	\$119,736
2029	197	\$624	1.714%	\$122,623	\$109,889
2030	178	\$635	1.714%	\$113,071	\$99,949
2031	160	\$646	1.714%	\$103,125	\$81,670
2032	141	\$657	1.714%	\$92,774	\$71,779
2033	123	\$668	1.714%	\$82,007	\$61,985
2034	104	\$679	1.714%	\$70,811	\$52,288
2035	86	\$691	1.714%	\$59,173	\$42,688
				\$1,924,738	\$1,762,976

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.

¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change

¹¹ = Number of Professionals to receive compassion fatigue interventions × compassion fatigue interventions cost per professional.

2D2. Medical Social Workers

Median Hourly Wage of Healthcare Social Workers (SOC 21-1022)

CLE MSA & YNG MSA May 2019

Median Hourly Wage: \$25.32 cle yng 28.23 \$ 25.32
 Annual Hours: 2,080
 Median Annual Wage: \$52,665.60

Year	Wage	Growth	Wage	Year
2019	\$52,665.60	1.97%	\$53,703.11	2020
2020	\$53,703.11	1.97%	\$54,761.06	2021
2021	\$54,761.06	1.97%	\$55,839.86	2022
2022	\$55,839.86	1.97%	\$56,939.90	2023
2023	\$56,939.90	1.97%	\$58,061.62	2024
2024	\$58,061.62	1.97%	\$59,205.43	2025
2025	\$59,205.43	1.97%	\$60,371.78	2026
2026	\$60,371.78	1.97%	\$61,561.10	2027
2027	\$61,561.10	1.97%	\$62,773.86	2028
2028	\$62,773.86	1.97%	\$64,010.50	2029
2029	\$64,010.50	1.97%	\$65,271.51	2030
2030	\$65,271.51	1.97%	\$66,557.36	2031
2031	\$66,557.36	1.97%	\$67,868.54	2032
2032	\$67,868.54	1.97%	\$69,205.55	2033
2033	\$69,205.55	1.97%	\$70,568.90	2034
2034	\$70,568.90	1.97%	\$71,959.10	2035
2035	\$71,959.10	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsX

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2C1. HCV / HIV Screening

Managing Complications of Opioid Use Disorder Costs

HIV / HCV Screening Cost Per Case

Year	Medical Care Services		Cost	Year
	Cost	Growth		
2015	\$71.00	2.901%	\$73.06	2016
2016	\$73.06	3.913%	\$75.92	2017
2017	\$75.92	1.637%	\$77.16	2018
2018	\$77.16	2.644%	\$79.20	2019
2019	\$79.20	5.085%	\$83.23	2020
2020	\$83.23	3.181%	\$85.88	2021
2021	\$85.88	3.181%	\$88.61	2022
2022	\$88.61	3.181%	\$91.43	2023
2023	\$91.43	3.181%	\$94.34	2024
2024	\$94.34	3.181%	\$97.34	2025
2025	\$97.34	3.181%	\$100.43	2026
2026	\$100.43	3.181%	\$103.63	2027
2027	\$103.63	3.181%	\$106.92	2028
2028	\$106.92	3.181%	\$110.33	2029
2029	\$110.33	3.181%	\$113.84	2030
2030	\$113.84	3.181%	\$117.46	2031
2031	\$117.46	3.181%	\$121.19	2032
2032	\$121.19	3.181%	\$125.05	2033
2033	\$125.05	3.181%	\$129.03	2034
2034	\$129.03	3.181%	\$133.13	2035
2035	\$133.13			

Source: Alexander

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Schedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035
2C2. HCV Treatment

Year	Number with HCV to Treat ¹	Treatment Cost Per Case per Year ¹	Annual cost growth rate ⁴	Total Cost ⁵	Present Value
2021	226	\$26,711	3.181%	\$6,027,950	\$6,027,950
2022	222	\$27,561	3.181%	\$6,122,909	\$6,102,770
2023	219	\$28,437	3.181%	\$6,222,293	\$6,181,428
2024	216	\$29,342	3.181%	\$6,326,222	\$6,264,004
2025	213	\$30,275	3.181%	\$6,434,821	\$6,350,578
2026	62	\$31,238	3.181%	\$1,942,454	\$1,813,799
2027	59	\$32,232	3.181%	\$1,914,273	\$1,763,154
2028	57	\$33,257	3.181%	\$1,886,502	\$1,713,923
2029	54	\$34,315	3.181%	\$1,859,133	\$1,666,066
2030	52	\$35,407	3.181%	\$1,832,162	\$1,619,546
2031	49	\$36,533	3.181%	\$1,805,581	\$1,429,928
2032	47	\$37,695	3.181%	\$1,779,387	\$1,376,694
2033	45	\$38,894	3.181%	\$1,753,572	\$1,325,441
2034	43	\$40,131	3.181%	\$1,728,132	\$1,276,096
2035	41	\$41,408	3.181%	\$1,703,061	\$1,228,588
				\$49,338,453	\$46,139,965

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Percent Change

⁵ = Number of individuals with HCV to treat × HCV treatment cost per case per year

Schedule: 2D. Workforce Expansion and Resiliency
2D2. Medical Social Workers

Year	Number of Medical Social Workers ¹	Median wage of Medical Social Worker ⁷	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁸	Annual growth rate ⁵	Total Cost ⁹	Present Value
2021	1.8	\$54,761	26.74%	\$69,404	1.970%	\$123,827	\$123,827
2022	1.7	\$55,840	26.74%	\$70,771	1.970%	\$120,599	\$120,202
2023	1.6	\$56,940	26.74%	\$72,166	1.970%	\$117,454	\$116,683
2024	1.6	\$58,062	26.74%	\$73,587	1.970%	\$114,392	\$113,267
2025	1.5	\$59,205	26.74%	\$75,037	1.970%	\$111,409	\$109,950
2026	1.4	\$60,372	26.74%	\$76,515	1.970%	\$108,504	\$101,317
2027	1.4	\$61,561	26.74%	\$78,023	1.970%	\$105,675	\$97,333
2028	1.3	\$62,774	26.74%	\$79,560	1.970%	\$102,920	\$93,504
2029	1.2	\$64,011	26.74%	\$81,127	1.970%	\$100,236	\$89,827
2030	1.2	\$65,272	26.74%	\$82,725	1.970%	\$97,622	\$86,294
2031	1.1	\$66,557	26.74%	\$84,355	1.970%	\$95,077	\$75,296
2032	1.1	\$67,869	26.74%	\$86,017	1.970%	\$92,598	\$71,642
2033	1.0	\$69,206	26.74%	\$87,711	1.970%	\$90,184	\$68,165
2034	1.0	\$70,569	26.74%	\$89,439	1.970%	\$87,832	\$64,857
2035	0.9	\$71,959	26.74%	\$91,201	1.970%	\$85,542	\$61,710
						\$1,553,870	\$1,393,875

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019 (Healthcare Social Workers SOC: 21-1022)

⁸ = Median annual medical social worker wage + employer provided fringe benefit percentage of wages

⁹ = Total number of medical social workers × total annual compensation of medical social worker

2D1. Recruitment and Retention

Median Hourly Wage of Nurse Practitioners (SOC 29-1171)

CLE MSA & YNG MSA, May 2019

		cle	yng
Median Hourly Wage:	\$44.63		
Annual Hours:	2,080	\$ 49.86	\$ 44.63
Median Annual Wage:	\$92,830.40		

Year	Wage	Growth	Wage	Year
2019	\$92,830.40	2.26%	\$94,929.30	2020
2020	\$94,929.30	2.26%	\$97,075.65	2021
2021	\$97,075.65	2.26%	\$99,270.53	2022
2022	\$99,270.53	2.26%	\$101,515.03	2023
2023	\$101,515.03	2.26%	\$103,810.29	2024
2024	\$103,810.29	2.26%	\$106,157.44	2025
2025	\$106,157.44	2.26%	\$108,557.66	2026
2026	\$108,557.66	2.26%	\$111,012.15	2027
2027	\$111,012.15	2.26%	\$113,522.13	2028
2028	\$113,522.13	2.26%	\$116,088.87	2029
2029	\$116,088.87	2.26%	\$118,713.64	2030
2030	\$118,713.64	2.26%	\$121,397.75	2031
2031	\$121,397.75	2.26%	\$124,142.56	2032
2032	\$124,142.56	2.26%	\$126,949.42	2033
2033	\$126,949.42	2.26%	\$129,819.75	2034
2034	\$129,819.75	2.26%	\$132,754.97	2035
2035	\$132,754.97			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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2C2. HCV Treatment

HCV Treatment Cost Per Case

Medical Care Services				
Year	Cost	Growth	Cost	Year
2018	\$24,000.00	2.644%	\$24,634.65	2019
2019	\$24,634.65	5.085%	\$25,887.39	2020
2020	\$25,887.39	3.181%	\$26,710.87	2021
2021	\$26,710.87	3.181%	\$27,560.54	2022
2022	\$27,560.54	3.181%	\$28,437.24	2023
2023	\$28,437.24	3.181%	\$29,341.83	2024
2024	\$29,341.83	3.181%	\$30,275.20	2025
2025	\$30,275.20	3.181%	\$31,238.25	2026
2026	\$31,238.25	3.181%	\$32,231.94	2027
2027	\$32,231.94	3.181%	\$33,257.24	2028
2028	\$33,257.24	3.181%	\$34,315.15	2029
2029	\$34,315.15	3.181%	\$35,406.72	2030
2030	\$35,406.72	3.181%	\$36,533.00	2031
2031	\$36,533.00	3.181%	\$37,695.12	2032
2032	\$37,695.12	3.181%	\$38,894.20	2033
2033	\$38,894.20	3.181%	\$40,131.42	2034
2034	\$40,131.42	3.181%	\$41,408.00	2035
2035	\$41,408.00			

Source: Alexander

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Schedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035
2C3. HIV Treatment

Year	Number of Individuals with HIV to Treat ¹	HIV Treatment Cost Per Case per Year ¹	Annual cost growth rate ⁴	Total Cost ⁶	Present Value
2021	9	\$42,513	3.181%	\$392,099	\$392,099
2022	10	\$43,865	3.181%	\$433,712	\$432,286
2023	11	\$45,260	3.181%	\$475,269	\$472,148
2024	11	\$46,700	3.181%	\$516,777	\$511,694
2025	12	\$48,186	3.181%	\$558,243	\$550,935
2026	12	\$49,718	3.181%	\$599,675	\$599,956
2027	12	\$51,300	3.181%	\$641,079	\$590,470
2028	13	\$52,932	3.181%	\$682,462	\$620,030
2029	13	\$54,616	3.181%	\$723,832	\$648,563
2030	14	\$56,353	3.181%	\$765,195	\$676,397
2031	14	\$58,145	3.181%	\$806,559	\$638,754
2032	14	\$59,995	3.181%	\$847,930	\$656,035
2033	14	\$61,904	3.181%	\$889,315	\$672,191
2034	15	\$63,873	3.181%	\$930,722	\$687,268
2035	15	\$65,904	3.181%	\$972,157	\$701,314
				\$10,235,026	\$8,810,239

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Percent Change

⁶ = Number of Individuals with HIV to treat x HIV treatment cost per case per year

Schedule: 2D. Workforce Expansion and Resiliency

2D1. Recruitment and Retention

Year	Number of MAT Recruitment Consultants ¹	Median annual wage of Nurse Practitioner ²	Employer provided Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.1	\$97,076	26.74%	\$123,034		\$11,515	\$11,515
2022	0.1	\$99,271	26.74%	\$125,815	2.261%	\$11,865	\$11,826
2023	0.1	\$101,515	26.74%	\$128,660	2.261%	\$12,224	\$12,144
2024	0.1	\$103,810	26.74%	\$131,569	2.261%	\$12,595	\$12,471
2025	0.1	\$106,157	26.74%	\$134,544	2.261%	\$12,977	\$12,807
2026	0.0	\$108,558	26.74%	\$137,586	2.261%	\$0	\$0
2027	0.0	\$111,012	26.74%	\$140,697	2.261%	\$0	\$0
2028	0.0	\$113,522	26.74%	\$143,878	2.261%	\$0	\$0
2029	0.0	\$116,089	26.74%	\$147,131	2.261%	\$0	\$0
2030	0.0	\$118,714	26.74%	\$150,458	2.261%	\$0	\$0
2031	0.0	\$121,398	26.74%	\$153,860	2.261%	\$0	\$0
2032	0.0	\$124,143	26.74%	\$157,338	2.261%	\$0	\$0
2033	0.0	\$126,949	26.74%	\$160,896	2.261%	\$0	\$0
2034	0.0	\$129,820	26.74%	\$164,534	2.261%	\$0	\$0
2035	0.0	\$132,755	26.74%	\$168,254	2.261%	\$0	\$0
						\$61,176	\$60,763

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019 (Nurse Practitioners SOC: 29-1171)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = Median annual nurse practitioner wage + employer provided fringe benefit percentage of wages

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change

⁶ = Total number of MAT recruitment consultants needed x total annual compensation of nurse practitioners

2C4. Endocarditis Treatment

Endocarditis Treatment Cost Per Case					
Source 1:	\$50,000	2015	Source 4:	\$	146,633 2017 \$
Source 2:	\$37,460	2015	Source 1-3:		\$65,319
Source 3:	\$95,799	2015			\$65,319
	\$61,086 Average in 2015 Dollars		Avg	\$	92,423
	\$65,318.62 Average in 2017 Dollars				

CPI

Medical Care Services

Year	Cost	Growth	Cost	Year
2015	\$61,086.33	2.901%	\$62,858.70	2016
2016	\$62,858.70	3.913%	\$65,318.62	2017
2017	\$92,423.41	1.637%	\$93,936.60	2018
2018	\$93,936.60	2.644%	\$96,420.63	2019
2019	\$96,420.63	5.085%	\$101,323.90	2020
2020	\$101,323.90	3.181%	\$104,547.02	2021
2021	\$104,547.02	3.181%	\$107,872.66	2022
2022	\$107,872.66	3.181%	\$111,304.09	2023
2023	\$111,304.09	3.181%	\$114,844.67	2024
2024	\$114,844.67	3.181%	\$118,497.88	2025
2025	\$118,497.88	3.181%	\$122,267.30	2026
2026	\$122,267.30	3.181%	\$126,156.62	2027
2027	\$126,156.62	3.181%	\$130,169.66	2028
2028	\$130,169.66	3.181%	\$134,310.36	2029
2029	\$134,310.36	3.181%	\$138,582.77	2030
2030	\$138,582.77	3.181%	\$142,991.09	2031
2031	\$142,991.09	3.181%	\$147,539.63	2032
2032	\$147,539.63	3.181%	\$152,232.87	2033
2033	\$152,232.87	3.181%	\$157,075.40	2034
2034	\$157,075.40	3.181%	\$162,071.97	2035
2035	\$162,071.97			

Source: Alexander

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2C3. HIV Treatment

HIV Treatment Cost Per Case

CPI

Medical Care Services

Year	Cost	Growth	Cost	Year
2011	\$31,147.00	3.596%	\$32,267.03	2012
2012	\$32,267.03	3.709%	\$33,463.90	2013
2013	\$33,463.90	2.543%	\$34,314.91	2014
2014	\$34,314.91	2.427%	\$35,147.61	2015
2015	\$35,147.61	2.901%	\$36,167.39	2016
2016	\$36,167.39	3.913%	\$37,582.77	2017
2017	\$37,582.77	1.637%	\$38,198.09	2018
2018	\$38,198.09	2.644%	\$39,208.19	2019
2019	\$39,208.19	5.085%	\$41,202.04	2020
2020	\$41,202.04	3.181%	\$42,512.68	2021
2021	\$42,512.68	3.181%	\$43,865.00	2022
2022	\$43,865.00	3.181%	\$45,260.35	2023
2023	\$45,260.35	3.181%	\$46,700.08	2024
2024	\$46,700.08	3.181%	\$48,185.61	2025
2025	\$48,185.61	3.181%	\$49,718.40	2026
2026	\$49,718.40	3.181%	\$51,299.94	2027
2027	\$51,299.94	3.181%	\$52,931.79	2028
2028	\$52,931.79	3.181%	\$54,615.55	2029
2029	\$54,615.55	3.181%	\$56,352.87	2030
2030	\$56,352.87	3.181%	\$58,145.45	2031
2031	\$58,145.45	3.181%	\$59,995.06	2032
2032	\$59,995.06	3.181%	\$61,903.50	2033
2033	\$61,903.50	3.181%	\$63,872.66	2034
2034	\$63,872.66	3.181%	\$65,904.44	2035
2035	\$65,904.44			

Source: Alexander

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Schedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035

2C4. Endocarditis Treatment

	New Endocarditis Cases with Opioid- Related IVDU 1	Treatment Cost Per Case 1	Annual cost growth rate ⁴	Total Cost ⁷	Present Value
2021	11	\$73,887	3.181%	\$833,907	\$833,907
2022	11	\$76,237	3.181%	\$821,809	\$819,106
2023	10	\$78,662	3.181%	\$809,886	\$804,567
2024	10	\$81,164	3.181%	\$798,137	\$790,287
2025	9	\$83,746	3.181%	\$786,558	\$776,260
2026	9	\$86,410	3.181%	\$775,147	\$723,807
2027	9	\$89,159	3.181%	\$763,901	\$703,596
2028	8	\$91,995	3.181%	\$752,819	\$683,950
2029	8	\$94,921	3.181%	\$741,897	\$664,853
2030	7	\$97,941	3.181%	\$731,134	\$646,289
2031	7	\$101,056	3.181%	\$720,527	\$570,621
2032	7	\$104,271	3.181%	\$710,074	\$549,377
2033	7	\$107,588	3.181%	\$699,773	\$528,924
2034	6	\$111,010	3.181%	\$689,621	\$509,233
2035	6	\$114,542	3.181%	\$679,616	\$490,275
				\$11,314,806	\$10,095,052

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Percent Change⁷ = Number of new cases with opioid-related IVDU × endocarditis treatment cost per case

Schedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035

2C4. Endocarditis Treatment

	New Endocarditis Cases with Opioid- Related IVDU 1	Treatment Cost Per Case 1	Annual cost growth rate ⁴	Total Cost ⁷	Present Value
2021	10	\$104,547	3.181%	\$1,007,923	\$1,007,923
2022	9	\$107,873	3.181%	\$993,300	\$990,033
2023	9	\$111,304	3.181%	\$978,890	\$972,461
2024	8	\$114,845	3.181%	\$964,689	\$955,201
2025	8	\$118,498	3.181%	\$950,693	\$938,247
2026	8	\$122,267	3.181%	\$936,901	\$874,848
2027	7	\$126,157	3.181%	\$923,309	\$850,420
2028	7	\$130,170	3.181%	\$909,914	\$826,674
2029	7	\$134,310	3.181%	\$896,713	\$803,592
2030	6	\$138,583	3.181%	\$883,704	\$781,153
2031	6	\$142,991	3.181%	\$870,884	\$689,696
2032	6	\$147,540	3.181%	\$858,249	\$664,019
2033	6	\$152,233	3.181%	\$845,798	\$639,298
2034	5	\$157,075	3.181%	\$833,528	\$615,498
2035	5	\$162,072	3.181%	\$821,435	\$592,583
				\$13,675,933	\$12,201,647

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Percent Change⁷ = Number of new cases with opioid-related IVDU × endocarditis treatment cost per case

2C3. HIV Treatment

HIV Treatment Cost Per Case

Year				
2011				
2012				
2013				
2014		CPI		
2015		Medical Care Services		
2016	Cost	Growth	Cost	Year
2017	\$31,147.00	3.596%	\$32,267.03	2012
2018	\$32,267.03	3.709%	\$33,463.90	2013
2019	\$33,463.90	2.543%	\$34,314.91	2014
2020	\$34,314.91	2.427%	\$35,147.61	2015
2021	\$35,147.61	2.901%	\$36,167.39	2016
2022	\$36,167.39	3.913%	\$37,582.77	2017
2023	\$37,582.77	1.637%	\$38,198.09	2018
2024	\$38,198.09	2.644%	\$39,208.19	2019
2025	\$39,208.19	5.085%	\$41,202.04	2020
2026	\$41,202.04	3.181%	\$42,512.68	2021
2027	\$42,512.68	3.181%	\$43,865.00	2022
2028	\$43,865.00	3.181%	\$45,260.35	2023
2029	\$45,260.35	3.181%	\$46,700.08	2024
2030	\$46,700.08	3.181%	\$48,185.61	2025
2031	\$48,185.61	3.181%	\$49,718.40	2026
2032	\$49,718.40	3.181%	\$51,299.94	2027
2033	\$51,299.94	3.181%	\$52,931.79	2028
2034	\$52,931.79	3.181%	\$54,615.55	2029
2035	\$54,615.55	3.181%	\$56,352.87	2030
	\$56,352.87	3.181%	\$58,145.45	2031
	\$58,145.45	3.181%	\$59,995.06	2032
	\$59,995.06	3.181%	\$61,903.50	2033
	\$61,903.50	3.181%	\$63,872.66	2034
	\$63,872.66	3.181%	\$65,904.44	2035
	\$65,904.44			

Source: Alexander

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2C4. Endocarditis Treatment

Endocarditis Treatment Cost Per Case

Source 1:	\$50,000			
Source 2:	\$37,460			
Source 3:	\$95,799			
	\$61,086 Average In 2015 Dollars			
	CPI			
	Medical Care Services			
Year	Cost	Growth	Cost	Year
2015	\$61,086.33	2.901%	\$62,858.70	2016
2016	\$62,858.70	3.913%	\$65,318.62	2017
2017	\$65,318.62	1.637%	\$66,388.04	2018
2018	\$66,388.04	2.644%	\$68,143.58	2019
2019	\$68,143.58	5.085%	\$71,608.89	2020
2020	\$71,608.89	3.181%	\$73,886.76	2021
2021	\$73,886.76	3.181%	\$76,237.10	2022
2022	\$76,237.10	3.181%	\$78,662.20	2023
2023	\$78,662.20	3.181%	\$81,164.45	2024
2024	\$81,164.45	3.181%	\$83,746.29	2025
2025	\$83,746.29	3.181%	\$86,410.26	2026
2026	\$86,410.26	3.181%	\$89,158.97	2027
2027	\$89,158.97	3.181%	\$91,995.12	2028
2028	\$91,995.12	3.181%	\$94,921.48	2029
2029	\$94,921.48	3.181%	\$97,940.93	2030
2030	\$97,940.93	3.181%	\$101,056.43	2031
2031	\$101,056.43	3.181%	\$104,271.04	2032
2032	\$104,271.04	3.181%	\$107,587.90	2033
2033	\$107,587.90	3.181%	\$111,010.27	2034
2034	\$111,010.27	3.181%	\$114,541.51	2035

Source: Alexander

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Schedule: 2D. Workforce Expansion and Resiliency

2D1. Recruitment and Retention

Year	Number of Recruitment Consultants ¹	Median annual wage of Nurse Practitioner ²	Employer provided Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.2	\$108,452	26.74%	\$137,451		\$25,532	\$25,532
2022	0.2	\$110,904	26.74%	\$140,559	2.261%	\$26,436	\$26,349
2023	0.2	\$113,411	26.74%	\$143,737	2.261%	\$27,371	\$27,191
2024	0.2	\$115,975	26.74%	\$146,987	2.261%	\$28,339	\$28,061
2025	0.2	\$118,598	26.74%	\$150,311	2.261%	\$29,342	\$28,958
2026	0.0	\$121,279	26.74%	\$153,709	2.261%	\$0	\$0
2027	0.0	\$124,021	26.74%	\$157,184	2.261%	\$0	\$0
2028	0.0	\$126,825	26.74%	\$160,738	2.261%	\$0	\$0
2029	0.0	\$129,693	26.74%	\$164,373	2.261%	\$0	\$0
2030	0.0	\$132,625	26.74%	\$168,089	2.261%	\$0	\$0
2031	0.0	\$135,624	26.74%	\$171,890	2.261%	\$0	\$0
2032	0.0	\$138,690	26.74%	\$175,776	2.261%	\$0	\$0
2033	0.0	\$141,826	26.74%	\$179,750	2.261%	\$0	\$0
2034	0.0	\$145,033	26.74%	\$183,815	2.261%	\$0	\$0
2035	0.0	\$148,312	26.74%	\$187,971	2.261%	\$0	\$0
						\$137,020	\$136,090

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019 (Nurse Practitioners SOC: 29-1171)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = Median annual nurse practitioner wage + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change⁶ = Total number of MAT recruitment consultants needed × total annual compensation of nurse practitioners

Schedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035

2C3. HIV Treatment

Year	Number of Individuals with HIV to Treat ¹	HIV Treatment Cost Per Case per Year ¹	Annual cost growth rate ⁴	Total Cost ⁶	Present Value
2021	21	\$42,513	3.181%	\$910,905	\$910,905
2022	23	\$43,865	3.181%	\$1,007,578	\$1,004,264
2023	24	\$45,260	3.181%	\$1,104,120	\$1,096,869
2024	26	\$46,700	3.181%	\$1,200,549	\$1,188,742
2025	27	\$48,186	3.181%	\$1,296,881	\$1,279,903
2026	28	\$49,718	3.181%	\$1,393,133	\$1,300,862
2027	29	\$51,300	3.181%	\$1,489,321	\$1,371,748
2028	30	\$52,932	3.181%	\$1,585,460	\$1,440,421
2029	31	\$54,616	3.181%	\$1,681,569	\$1,506,941
2030	32	\$56,353	3.181%	\$1,777,662	\$1,571,370
2031	32	\$58,145	3.181%	\$1,873,756	\$1,483,919
2032	33	\$59,995	3.181%	\$1,969,867	\$1,524,066
2033	33	\$61,904	3.181%	\$2,066,011	\$1,561,599
2034	34	\$63,873	3.181%	\$2,162,205	\$1,596,626
2035	34	\$65,904	3.181%	\$2,258,464	\$1,629,256
				\$23,777,481	\$20,467,491

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Percent Change⁶ = Number of individuals with HIV to treat × HIV treatment cost per case per year

2C2. HCV Treatment

HCV Treatment Cost Per Case

Medical Care Services				
Year	Cost	Growth	Cost	Year
2018	\$24,000.00	2.644%	\$24,634.65	2019
2019	\$24,634.65	5.085%	\$25,887.39	2020
2020	\$25,887.39	3.181%	\$26,710.87	2021
2021	\$26,710.87	3.181%	\$27,560.54	2022
2022	\$27,560.54	3.181%	\$28,437.24	2023
2023	\$28,437.24	3.181%	\$29,341.83	2024
2024	\$29,341.83	3.181%	\$30,275.20	2025
2025	\$30,275.20	3.181%	\$31,238.25	2026
2026	\$31,238.25	3.181%	\$32,231.94	2027
2027	\$32,231.94	3.181%	\$33,257.24	2028
2028	\$33,257.24	3.181%	\$34,315.15	2029
2029	\$34,315.15	3.181%	\$35,406.72	2030
2030	\$35,406.72	3.181%	\$36,533.00	2031
2031	\$36,533.00	3.181%	\$37,695.12	2032
2032	\$37,695.12	3.181%	\$38,894.20	2033
2033	\$38,894.20	3.181%	\$40,131.42	2034
2034	\$40,131.42	3.181%	\$41,408.00	2035
2035	\$41,408.00			

Source: Alexander

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2D1. Recruitment and Retention

Median Hourly Wage of Nurse Practitioners (SOC 29-1171)

CLE MSA & YNG MSA, May 2019

Median Hourly Wage:	\$49.86	cle	yng
Annual Hours:	2,080		
Median Annual Wage:	\$103,708.80	\$ 49.86	\$ 44.63

Year	Wage	Growth	Wage	Year
2019	\$103,708.80	2.26%	\$106,053.66	2020
2020	\$106,053.66	2.26%	\$108,451.53	2021
2021	\$108,451.53	2.26%	\$110,903.62	2022
2022	\$110,903.62	2.26%	\$113,411.15	2023
2023	\$113,411.15	2.26%	\$115,975.38	2024
2024	\$115,975.38	2.26%	\$118,597.58	2025
2025	\$118,597.58	2.26%	\$121,279.07	2026
2026	\$121,279.07	2.26%	\$124,021.19	2027
2027	\$124,021.19	2.26%	\$126,825.31	2028
2028	\$126,825.31	2.26%	\$129,692.83	2029
2029	\$129,692.83	2.26%	\$132,625.18	2030
2030	\$132,625.18	2.26%	\$135,623.84	2031
2031	\$135,623.84	2.26%	\$138,690.29	2032
2032	\$138,690.29	2.26%	\$141,826.08	2033
2033	\$141,826.08	2.26%	\$145,032.77	2034
2034	\$145,032.77	2.26%	\$148,311.96	2035
2035	\$148,311.96			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2D. Workforce Expansion and Resiliency
2D2. Medical Social Workers

Year	Number of Medical Social Workers ¹	Median wage of Medical Social Worker ²	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual growth rate ⁵	Total Cost ⁶	Present Value
2021	1.4	\$61,055	26.74%	\$77,381	1.970%	\$104,652	\$104,652
2022	1.3	\$62,257	26.74%	\$78,905	1.970%	\$101,924	\$101,589
2023	1.2	\$63,484	26.74%	\$80,460	1.970%	\$99,266	\$98,614
2024	1.2	\$64,735	26.74%	\$82,045	1.970%	\$96,678	\$95,727
2025	1.1	\$66,010	26.74%	\$83,661	1.970%	\$94,157	\$92,924
2026	1.1	\$67,310	26.74%	\$85,309	1.970%	\$91,702	\$85,628
2027	1.0	\$68,636	26.74%	\$86,990	1.970%	\$89,311	\$82,261
2028	1.0	\$69,988	26.74%	\$88,703	1.970%	\$86,982	\$79,025
2029	0.9	\$71,367	26.74%	\$90,451	1.970%	\$84,714	\$75,917
2030	0.9	\$72,773	26.74%	\$92,233	1.970%	\$82,506	\$72,931
2031	0.9	\$74,207	26.74%	\$94,050	1.970%	\$80,354	\$63,637
2032	0.8	\$75,669	26.74%	\$95,902	1.970%	\$78,259	\$60,548
2033	0.8	\$77,159	26.74%	\$97,792	1.970%	\$76,219	\$57,610
2034	0.7	\$78,679	26.74%	\$99,718	1.970%	\$74,231	\$54,814
2035	0.7	\$80,229	26.74%	\$101,683	1.970%	\$72,296	\$52,154
						\$1,313,253	\$1,178,033

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019 (Nurse Practitioners SOC: 29-1171)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = Median annual nurse practitioner wage + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change⁶ = Total number of MAT recruitment consultants needed × total annual compensation of nurse practitioners

Schedule: 2D. Workforce Expansion and Resiliency

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019 (Healthcare Social Workers SOC: 21-1022)⁸ = Median annual medical social worker wage + employer provided fringe benefit percentage of wages⁹ = Total number of medical social workers × total annual compensation of medical social workerSchedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035
2C2. HCV Treatment

Year	Number with HCV to Treat ¹	Treatment Cost Per Case per Year ¹	Annual cost growth rate ⁴	Total Cost ⁵	Present Value
2021	418	\$26,711	3.181%	\$11,165,909	\$11,165,909
2022	412	\$27,561	3.181%	\$11,341,808	\$11,304,503
2023	405	\$28,437	3.181%	\$11,525,902	\$11,450,206
2024	399	\$29,342	3.181%	\$11,718,416	\$11,603,165
2025	394	\$30,275	3.181%	\$11,919,580	\$11,763,531
2026	115	\$31,238	3.181%	\$3,598,116	\$3,359,802
2027	110	\$32,232	3.181%	\$3,545,916	\$3,265,989
2028	105	\$33,257	3.181%	\$3,494,473	\$3,174,795
2029	100	\$34,315	3.181%	\$3,443,777	\$3,086,147
2030	96	\$35,407	3.181%	\$3,393,816	\$2,999,975
2031	92	\$36,533	3.181%	\$3,344,580	\$2,918,737
2032	87	\$37,695	3.181%	\$3,296,058	\$2,842,127
2033	84	\$38,894	3.181%	\$3,248,240	\$2,769,188
2034	80	\$40,131	3.181%	\$3,201,116	\$2,699,784
2035	76	\$41,408	3.181%	\$3,154,676	\$2,633,783
				\$91,392,381	\$85,467,642

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Percent Change⁵ = Number of individuals with HCV to treat × HCV treatment cost per case per year

2C1. HCV / HIV Screening

Managing Complications of Opioid Use Disorder Costs

HIV / HCV Screening Cost Per Case

Medical Care Services				
Year	Cost	Growth	Cost	Year
2015	\$71.00	2.901%	\$73.06	2016
2016	\$73.06	3.913%	\$75.92	2017
2017	\$75.92	1.637%	\$77.16	2018
2018	\$77.16	2.644%	\$79.20	2019
2019	\$79.20	5.085%	\$83.23	2020
2020	\$83.23	3.181%	\$85.88	2021
2021	\$85.88	3.181%	\$88.61	2022
2022	\$88.61	3.181%	\$91.43	2023
2023	\$91.43	3.181%	\$94.34	2024
2024	\$94.34	3.181%	\$97.34	2025
2025	\$97.34	3.181%	\$100.43	2026
2026	\$100.43	3.181%	\$103.63	2027
2027	\$103.63	3.181%	\$106.92	2028
2028	\$106.92	3.181%	\$110.33	2029
2029	\$110.33	3.181%	\$113.84	2030
2030	\$113.84	3.181%	\$117.46	2031
2031	\$117.46	3.181%	\$121.19	2032
2032	\$121.19	3.181%	\$125.05	2033
2033	\$125.05	3.181%	\$129.03	2034
2034	\$129.03	3.181%	\$133.13	2035
2035	\$133.13			

Source: Alexander

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2D2. Medical Social Workers

Median Hourly Wage of Healthcare Social Workers (SOC 21-1022)

CLE MSA & YNG MSA May 2019

Median Hourly Wage:	\$28.23	cle	28.23	YNG	\$ 25.32
Annual Hours:	2,080				
Median Annual Wage:	\$58,718.40				

Year	Wage	Growth	Wage	Year
2019	\$58,718.40	1.97%	\$59,875.15	2020
2020	\$59,875.15	1.97%	\$61,054.69	2021
2021	\$61,054.69	1.97%	\$62,257.47	2022
2022	\$62,257.47	1.97%	\$63,483.94	2023
2023	\$63,483.94	1.97%	\$64,734.58	2024
2024	\$64,734.58	1.97%	\$66,009.85	2025
2025	\$66,009.85	1.97%	\$67,310.24	2026
2026	\$67,310.24	1.97%	\$68,636.25	2027
2027	\$68,636.25	1.97%	\$69,988.39	2028
2028	\$69,988.39	1.97%	\$71,367.16	2029
2029	\$71,367.16	1.97%	\$72,773.09	2030
2030	\$72,773.09	1.97%	\$74,206.72	2031
2031	\$74,206.72	1.97%	\$75,668.59	2032
2032	\$75,668.59	1.97%	\$77,159.27	2033
2033	\$77,159.27	1.97%	\$78,679.30	2034
2034	\$78,679.30	1.97%	\$80,229.29	2035
2035	\$80,229.29	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2D. Workforce Expansion and Resiliency
2D3. Reducing Burnout / Compassion Fatigue

Year	Professionals to Receive Compassion Fatigue Interventions ¹	Compassion fatigue interventions cost per Professional ¹	Annual growth rate ¹⁰	Total Cost ¹¹	Present Value
2021	298	\$545		\$162,181	\$162,181
2022	282	\$554	1.714%	\$156,426	\$155,911
2023	267	\$563	1.714%	\$150,381	\$149,393
2024	251	\$573	1.714%	\$144,037	\$142,621
2025	236	\$583	1.714%	\$137,385	\$135,587
2026	220	\$593	1.714%	\$130,414	\$121,777
2027	204	\$603	1.714%	\$123,114	\$113,395
2028	188	\$613	1.714%	\$115,473	\$104,909
2029	172	\$624	1.714%	\$107,481	\$96,319
2030	156	\$635	1.714%	\$99,125	\$87,622
2031	140	\$646	1.714%	\$90,394	\$71,588
2032	124	\$657	1.714%	\$81,276	\$62,883
2033	107	\$668	1.714%	\$71,758	\$54,239
2034	91	\$679	1.714%	\$61,828	\$45,655
2035	74	\$691	1.714%	\$51,470	\$37,131
				\$1,682,744	\$1,541,209

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.

¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals: 2009-2019 Annual Average Percent Change

¹¹ = Number of first responders to receive compassion fatigue interventions × compassion fatigue interventions cost per first responder
Schedule: 2D. Workforce Expansion and Resiliency

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Schedule: 2C. Showing Managing Complications of Attributable to the Epidemic 2021-2035

2C1. HCV / HIV Screening

Year	Opioid Injection drug users to be screened ¹	HCV / HIV Screening Cost per Case ¹	Annual growth rate ²	Total Cost ³	Present Value
2021	825	\$85.88		\$70,863	\$70,863
2022	807	\$88.61	3.181%	\$71,498	\$71,263
2023	789	\$91.43	3.181%	\$72,099	\$71,626
2024	770	\$94.34	3.181%	\$72,668	\$71,953
2025	752	\$97.34	3.181%	\$73,205	\$72,247
2026	734	\$100.43	3.181%	\$73,712	\$68,829
2027	716	\$103.63	3.181%	\$74,188	\$68,331
2028	698	\$106.92	3.181%	\$74,635	\$67,807
2029	680	\$110.33	3.181%	\$75,053	\$67,259
2030	663	\$113.84	3.181%	\$75,443	\$66,688
2031	645	\$117.46	3.181%	\$75,807	\$66,035
2032	628	\$121.19	3.181%	\$76,144	\$65,911
2033	611	\$125.05	3.181%	\$76,455	\$65,788
2034	595	\$129.03	3.181%	\$76,741	\$65,667
2035	578	\$133.13	3.181%	\$77,003	\$65,550
				\$1,115,511	\$985,818

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services: 2009-2019 Annual Percent Change

³ = Number of HIV / HCV screening population × HIV / HCV screening cost per case

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2B8.7 Social Workers

Substance Abuse Social Worker

Median Annual Wage of Licensed Clinical Social Worker-Level Staff

Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)

CLE MSA & YNG MSA, May 2019

		cle	yng
Median Hourly Wage:	\$18.35	\$ 19.05	\$ 18.35
Annual Hours:	2,080		
Median Annual Wage:	\$38,168.00		

Year	Wage	Growth	Wage	Year
2019	\$38,168.00	1.97%	\$38,919.91	2020
2020	\$38,919.91	1.97%	\$39,686.63	2021
2021	\$39,686.63	1.97%	\$40,468.46	2022
2022	\$40,468.46	1.97%	\$41,265.69	2023
2023	\$41,265.69	1.97%	\$42,078.62	2024
2024	\$42,078.62	1.97%	\$42,907.57	2025
2025	\$42,907.57	1.97%	\$43,752.85	2026
2026	\$43,752.85	1.97%	\$44,614.78	2027
2027	\$44,614.78	1.97%	\$45,493.69	2028
2028	\$45,493.69	1.97%	\$46,389.92	2029
2029	\$46,389.92	1.97%	\$47,303.80	2030
2030	\$47,303.80	1.97%	\$48,235.68	2031
2031	\$48,235.68	1.97%	\$49,185.93	2032
2032	\$49,185.93	1.97%	\$50,154.89	2033
2033	\$50,154.89	1.97%	\$51,142.94	2034
2034	\$51,142.94	1.97%	\$52,150.46	2035
2035	\$52,150.46	1.97%		

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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2D3. Reducing Burnout / Compassion Fatigue

Compassion Fatigue Costs Per First Responder

Monument Analytics

Source 1:	\$523 in 2019 dollars	2.56% =	\$536.39 in 2020 dollars
Source 2:			\$575.00 in 2020 dollars
Source 3:			\$495.00 in 2020 dollars
			\$535.46 Average

Year	Wage	Growth	Wage	Year
2020	\$535.46	1.714%	\$544.64	2021
2021	\$544.64	1.714%	\$553.98	2022
2022	\$553.98	1.714%	\$563.47	2023
2023	\$563.47	1.714%	\$573.13	2024
2024	\$573.13	1.714%	\$582.95	2025
2025	\$582.95	1.714%	\$592.94	2026
2026	\$592.94	1.714%	\$603.11	2027
2027	\$603.11	1.714%	\$613.44	2028
2028	\$613.44	1.714%	\$623.96	2029
2029	\$623.96	1.714%	\$634.65	2030
2030	\$634.65	1.714%	\$645.53	2031
2031	\$645.53	1.714%	\$656.60	2032
2032	\$656.60	1.714%	\$667.85	2033
2033	\$667.85	1.714%	\$679.30	2034
2034	\$679.30	1.714%	\$690.94	2035
2035	\$690.94			

Source: Alexander

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2D4. Pain treatment specialists

Year	Number of Pain treatment specialists needed ¹	Cost per pain specialist ¹²	Annual cost growth rate ¹⁰	Total Cost ¹¹	Present Value
2021	7.0	\$206,898	1.770%	\$1,458,406	\$1,458,406
2022	7.0	\$210,560	1.770%	\$1,484,220	\$1,479,338
2023	7.0	\$214,287	1.770%	\$1,510,490	\$1,500,570
2024	7.0	\$218,079	1.770%	\$1,537,226	\$1,522,108
2025	7.0	\$221,939	1.770%	\$1,564,435	\$1,543,954
2026	7.0	\$225,868	1.770%	\$1,592,126	\$1,486,674
2027	7.0	\$229,866	1.770%	\$1,620,306	\$1,492,394
2028	7.0	\$233,934	1.770%	\$1,648,986	\$1,498,135
2029	7.0	\$238,075	1.770%	\$1,678,173	\$1,503,898
2030	7.0	\$242,289	1.770%	\$1,707,876	\$1,509,683
2031	7.0	\$246,577	1.770%	\$1,738,106	\$1,376,491
2032	7.0	\$250,942	1.770%	\$1,768,870	\$1,368,557
2033	7.0	\$255,383	1.770%	\$1,800,179	\$1,360,669
2034	7.0	\$259,904	1.770%	\$1,832,042	\$1,352,826
2035	7.0	\$264,504	1.770%	\$1,864,470	\$1,345,028
				\$24,805,911	\$21,798,731

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.

¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change

¹¹ = Number of pain treatment specialists to recruit x cost per pain specialist

¹² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG OH, Metropolitan Statistical Area. cost per specialist \$99.47 per hour x 2080 hours (SOC 29-1228)

Schedule: 288. Assertive Community Treatment (ACT)

288.7 Social Workers

Year	Number of Social Workers Required ¹	Median Wage of Social Workers ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.9	\$39,687	26.7%	\$50,299	1.97%	\$43,583	\$43,583
2022	1.8	\$40,468	26.7%	\$51,290	1.97%	\$18,959	\$18,897
2023	1.8	\$41,266	26.7%	\$52,300	1.97%	\$19,689	\$19,559
2024	1.8	\$42,079	26.7%	\$53,330	1.97%	\$20,309	\$20,109
2025	1.8	\$42,908	26.7%	\$54,381	1.97%	\$20,817	\$20,544
2026	1.8	\$43,753	26.7%	\$55,452	1.97%	\$21,211	\$19,806
2027	1.8	\$44,615	26.7%	\$56,545	1.97%	\$21,490	\$19,794
2028	1.8	\$45,494	26.7%	\$57,659	1.97%	\$21,654	\$19,673
2029	1.7	\$46,390	26.7%	\$58,795	1.97%	\$21,701	\$19,447
2030	1.7	\$47,304	26.7%	\$59,953	1.97%	\$21,633	\$19,122
2031	1.7	\$48,236	26.7%	\$61,134	1.97%	\$21,449	\$16,987
2032	1.6	\$49,186	26.7%	\$62,338	1.97%	\$21,151	\$16,365
2033	1.5	\$50,155	26.7%	\$63,566	1.97%	\$20,741	\$15,677
2034	1.5	\$51,143	26.7%	\$64,819	1.97%	\$20,220	\$14,931
2035	1.4	\$52,150	26.7%	\$66,095	1.97%	\$19,590	\$14,132
						\$334,197	\$298,627

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = wages + Fringe benefits.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)

⁶ = Total Social Workers x Total Compensation

2B8.6 Program Assistants

Number and Compensation of Program Assistants

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$15.29

Annual Hours: 2,080

Median Annual Wage: \$31,803.20

cle yng
17.92 15.29

Year	Wage	Growth	Wage	Year
2019	\$31,803.20	2.43%	\$32,576.34	2020
2020	\$32,576.34	2.43%	\$33,368.27	2021
2021	\$33,368.27	2.43%	\$34,179.45	2022
2022	\$34,179.45	2.43%	\$35,010.35	2023
2023	\$35,010.35	2.43%	\$35,861.45	2024
2024	\$35,861.45	2.43%	\$36,733.25	2025
2025	\$36,733.25	2.43%	\$37,626.23	2026
2026	\$37,626.23	2.43%	\$38,540.92	2027
2027	\$38,540.92	2.43%	\$39,477.85	2028
2028	\$39,477.85	2.43%	\$40,437.56	2029
2029	\$40,437.56	2.43%	\$41,420.60	2030
2030	\$41,420.60	2.43%	\$42,427.53	2031
2031	\$42,427.53	2.43%	\$43,458.95	2032
2032	\$43,458.95	2.43%	\$44,515.43	2033
2033	\$44,515.43	2.43%	\$45,597.60	2034
2034	\$45,597.60	2.43%	\$46,706.08	2035
2035	\$46,706.08	2.43%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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2D4. Pain treatment specialists

Pain Specialist soc-29-1228

occ_code	occ_title	tot_emp	h_mean	a_mean	h_median	a_median
29-1228	Physicians, All Other	670	79.89	166170	77.13	160430
		5640	96.52	200760	99.47	
Grand Total						

2021	\$	99.47	2030	\$	206,897.60
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29-1228	670	10.6%	\$	77.13	\$	8.19
	5,640	89.4%	\$	99.47	\$	88.91
	6,310	100%	\$	176.60	\$	97.10

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2E. Distributing Naloxone and Providing Training
2E1. First Responders Training Corrected 4-15-2022

Year	Number of Hours for First Responder Training ¹	Weighted Average Median Hourly Wage of First Responders ²	Annual growth rate ³	Total Cost ⁴	Present Value
2021	3,770	\$27.55	2.092%	\$103,866	\$103,866
2022	946	\$28.13	2.092%	\$26,601	\$26,513
2023	946	\$28.71	2.092%	\$27,176	\$26,998
2024	947	\$29.32	2.092%	\$27,764	\$27,491
2025	948	\$29.93	2.092%	\$28,364	\$27,993
2026	948	\$30.55	2.092%	\$28,977	\$27,058
2027	949	\$31.19	2.092%	\$29,604	\$27,267
2028	950	\$31.85	2.092%	\$30,244	\$27,477
2029	950	\$32.51	2.092%	\$30,898	\$27,689
2030	951	\$33.19	2.092%	\$31,566	\$27,903
2031	952	\$33.89	2.092%	\$32,249	\$25,539
2032	952	\$34.60	2.092%	\$32,946	\$25,490
2033	953	\$35.32	2.092%	\$33,658	\$25,441
2034	954	\$36.06	2.092%	\$34,386	\$25,392
2035	954	\$36.81	2.092%	\$35,130	\$25,343
				\$533,429	\$477,459

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019.

³ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, State and Local Government Workers. 2009-2019 Annual Average Percent Change

⁴ = Total number of hours for first responder training x weighted average median hourly wage of first responders

Schedule: 2B8. Assertive Community Treatment (ACT)
2B8.6 Program Assistants

Year	Number of Program Assistants Required ¹	Median Wage of Program Assistants ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.9	\$33,368	26.7%	\$42,291	2.431%	\$36,644	\$36,644
2022	1.8	\$34,179	26.7%	\$43,319	2.431%	\$16,013	\$15,960
2023	1.8	\$35,010	26.7%	\$44,372	2.431%	\$16,704	\$16,595
2024	1.8	\$35,861	26.7%	\$45,451	2.431%	\$17,308	\$17,138
2025	1.8	\$36,733	26.7%	\$46,556	2.431%	\$17,821	\$17,588
2026	1.8	\$37,626	26.7%	\$47,687	2.431%	\$18,241	\$17,033
2027	1.8	\$38,541	26.7%	\$48,847	2.431%	\$18,565	\$17,099
2028	1.8	\$39,478	26.7%	\$50,034	2.431%	\$18,790	\$17,071
2029	1.7	\$40,438	26.7%	\$51,251	2.431%	\$18,917	\$16,952
2030	1.7	\$41,421	26.7%	\$52,496	2.431%	\$18,942	\$16,744
2031	1.7	\$42,428	26.7%	\$53,773	2.431%	\$18,866	\$14,941
2032	1.6	\$43,459	26.7%	\$55,080	2.431%	\$18,689	\$14,459
2033	1.5	\$44,515	26.7%	\$56,419	2.431%	\$18,409	\$13,914
2034	1.5	\$45,598	26.7%	\$57,790	2.431%	\$18,028	\$13,312
2035	1.4	\$46,706	26.7%	\$59,195	2.431%	\$17,545	\$12,657
						\$289,482	\$258,108

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = wages + Fringe benefits.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014)

⁶ = Total Program Assistants x Total Compensation

288.5 Peer Recovery Coach

Median Annual Wage of Peer Recovery Coaches

Hourly Wage: \$9.00
 Annual Hours: 2,080
 Median Annual Wage: \$18,720.00

Year	Wage	Growth	Wage	Year
2019	\$18,720.00	1.97%	\$19,088.78	2020
2020	\$19,088.78	1.97%	\$19,464.83	2021
2021	\$19,464.83	1.97%	\$19,848.29	2022
2022	\$19,848.29	1.97%	\$20,239.30	2023
2023	\$20,239.30	1.97%	\$20,638.02	2024
2024	\$20,638.02	1.97%	\$21,044.58	2025
2025	\$21,044.58	1.97%	\$21,459.16	2026
2026	\$21,459.16	1.97%	\$21,881.91	2027
2027	\$21,881.91	1.97%	\$22,312.98	2028
2028	\$22,312.98	1.97%	\$22,752.55	2029
2029	\$22,752.55	1.97%	\$23,200.77	2030
2030	\$23,200.77	1.97%	\$23,657.83	2031
2031	\$23,657.83	1.97%	\$24,123.89	2032
2032	\$24,123.89	1.97%	\$24,599.13	2033
2033	\$24,599.13	1.97%	\$25,083.73	2034
2034	\$25,083.73	1.97%	\$25,577.88	2035
2035	\$25,577.88	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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SOC Title
 29-2040 Emergency Medical Technicians and Paramedics
 33-2011 Firefighters
 33-3051 Police and Sheriff's Patrol Officers

Median Hourly Wage: \$26.22
 ECI State & Local Gov

Year	Wage	Growth	Wage	Year
2019	\$26.22	2.939%	\$26.99	2020
2020	\$26.99	2.092%	\$27.55	2021
2021	#####	2.092%	\$28.13	2022
2022	\$28.13	2.092%	\$28.71	2023
2023	\$28.71	2.092%	\$29.32	2024
2024	\$29.32	2.092%	\$29.93	2025
2025	\$29.93	2.092%	\$30.55	2026
2026	\$30.55	2.092%	\$31.19	2027
2027	\$31.19	2.092%	\$31.85	2028
2028	\$31.85	2.092%	\$32.51	2029
2029	\$32.51	2.092%	\$33.19	2030
2030	\$33.19	2.092%	\$33.89	2031
2031	\$33.89	2.092%	\$34.60	2032
2032	\$34.60	2.092%	\$35.32	2033
2033	\$35.32	2.092%	\$36.06	2034
2034	\$36.06	2.092%	\$36.81	2035
2035				

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 2E. Distributing Naloxone and Providing Training

2E2. Narcan for First Responders

	Number of Narcan Doses for First Responders ¹	Cost per Narcan Dose for First Responders ¹	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	3,770	\$38.50	3.097%	\$145,148	\$145,148
2022	3,773	\$39.50	3.097%	\$149,020	\$148,530
2023	3,775	\$40.50	3.097%	\$152,898	\$151,894
2024	3,778	\$41.50	3.097%	\$156,781	\$155,239
2025	3,780	\$42.50	3.097%	\$160,670	\$158,566
2026	3,783	\$43.50	3.097%	\$164,563	\$153,664
2027	3,786	\$44.50	3.097%	\$168,462	\$155,163
2028	3,788	\$45.50	3.097%	\$172,367	\$156,598
2029	3,791	\$46.50	3.097%	\$176,276	\$157,970
2030	3,793	\$47.50	3.097%	\$180,191	\$159,281
2031	3,796	\$48.50	3.097%	\$184,111	\$145,807
2032	3,799	\$49.50	3.097%	\$188,037	\$145,482
2033	3,801	\$50.50	3.097%	\$191,968	\$145,099
2034	3,804	\$51.50	3.097%	\$195,904	\$144,660
2035	3,807	\$52.50	3.097%	\$199,845	\$144,168
				\$2,586,241	\$2,267,270

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change⁶ = Number of Narcan doses for first responders x cost per Narcan dose for first responders

Schedule: 2B8. Assertive Community Treatment (ACT)

2B8.5 Peer Recovery Coach

Year	Number of Peer Coaches Required ¹	Median Wage of Peer Coach ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.9	\$19,465	26.7%	\$19,848	1.97%	\$17,198	\$17,198
2022	1.8	\$19,848	26.7%	\$20,239	1.97%	\$9,299	\$9,268
2023	1.8	\$20,239	26.7%	\$20,638	1.97%	\$9,657	\$9,593
2024	1.8	\$20,638	26.7%	\$21,045	1.97%	\$9,961	\$9,863
2025	1.8	\$21,045	26.7%	\$21,459	1.97%	\$10,210	\$10,076
2026	1.8	\$21,459	26.7%	\$21,882	1.97%	\$10,403	\$9,714
2027	1.8	\$21,882	26.7%	\$22,313	1.97%	\$10,540	\$9,708
2028	1.8	\$22,313	26.7%	\$22,753	1.97%	\$10,620	\$9,649
2029	1.7	\$22,753	26.7%	\$23,201	1.97%	\$10,644	\$9,538
2030	1.7	\$23,201	26.7%	\$23,658	1.97%	\$10,610	\$9,379
2031	1.7	\$23,658	26.7%	\$24,124	1.97%	\$10,520	\$8,331
2032	1.6	\$24,124	26.7%	\$24,599	1.97%	\$10,374	\$8,026
2033	1.5	\$24,599	26.7%	\$25,084	1.97%	\$10,173	\$7,689
2034	1.5	\$25,084	26.7%	\$25,578	1.97%	\$9,917	\$7,323
2035	1.4	\$25,578	26.7%	\$26,082	1.97%	\$9,608	\$6,931
						\$159,734	\$142,288

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Assumed \$9.00 per hour.³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Health & Social Assistance. 2009-2019 Annual Average Percent Change⁶ = Total Peer Recovery Coaches x Total Compensation

Median Annual Wage of Substance Abuse, Behavioral Disorder, and Mental Health Counselors (SOC 21-1018)
CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$20.17	cle	22.36	20.17	yng
Annual Hours:	2,080				
Median Annual Wage:	\$41,953.60				

ECI Health & Social Assistance					
Year	Wage	Growth	Wage	Year	
2019	\$41,953.60	1.97%	\$42,780.09	2020	
2020	\$42,780.09	1.97%	\$43,622.85	2021	
2021	\$43,622.85	1.97%	\$44,482.22	2022	
2022	\$44,482.22	1.97%	\$45,358.52	2023	
2023	\$45,358.52	1.97%	\$46,252.09	2024	
2024	\$46,252.09	1.97%	\$47,163.25	2025	
2025	\$47,163.25	1.97%	\$48,092.37	2026	
2026	\$48,092.37	1.97%	\$49,039.79	2027	
2027	\$49,039.79	1.97%	\$50,005.87	2028	
2028	\$50,005.87	1.97%	\$50,990.99	2029	
2029	\$50,990.99	1.97%	\$51,995.51	2030	
2030	\$51,995.51	1.97%	\$53,019.82	2031	
2031	\$53,019.82	1.97%	\$54,064.31	2032	
2032	\$54,064.31	1.97%	\$55,129.38	2033	
2033	\$55,129.38	1.97%	\$56,215.43	2034	
2034	\$56,215.43	1.97%	\$57,322.87	2035	
2035	\$57,322.87	1.97%			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsX

2E2. Narcan for First Responders
First Responders Nasal Spray (Narcan) Single Use Spray

CPI- Rx					
Year	Cost	Growth	Cost	Year	
2018				2019	
2019	\$0.00	3.097%	\$37.50	2020	
2020	\$37.50	3.097%	\$38.50	2021	
2021	\$38.50	3.097%	\$39.50	2022	
2022	\$39.50	3.097%	\$40.50	2023	
2023	\$40.50	3.097%	\$41.50	2024	
2024	\$41.50	3.097%	\$42.50	2025	
2025	\$42.50	3.097%	\$43.50	2026	
2026	\$43.50	3.097%	\$44.50	2027	
2027	\$44.50	3.097%	\$45.50	2028	
2028	\$45.50	3.097%	\$46.50	2029	
2029	\$46.50	3.097%	\$47.50	2030	
2030	\$47.50	3.097%	\$48.50	2031	
2031	\$48.50	3.097%	\$49.50	2032	
2032	\$49.50	3.097%	\$50.50	2033	
2033	\$50.50	3.097%	\$51.50	2034	
2034	\$51.50	3.097%	\$52.50	2035	
2035	\$52.50	3.097%			

Source: Alexander

Schedule: 2E. Distributing Naloxone and Providing Training

2E3. Injectable Naloxone for Emergency Departments

Year	Number of Generic Injectable Naloxone Doses for EDs ¹	Cost per Generic Injectable Naloxone Dose ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	676	\$11.21	3.097%	\$7,580	\$7,580
2022	646	\$11.56	3.097%	\$7,464	\$7,440
2023	617	\$11.92	3.097%	\$7,350	\$7,302
2024	589	\$12.28	3.097%	\$7,238	\$7,166
2025	563	\$12.66	3.097%	\$7,127	\$7,033
2026	537	\$13.06	3.097%	\$7,018	\$6,553
2027	513	\$13.46	3.097%	\$6,910	\$6,365
2028	490	\$13.88	3.097%	\$6,804	\$6,182
2029	468	\$14.31	3.097%	\$6,700	\$6,004
2030	447	\$14.75	3.097%	\$6,598	\$5,832
2031	427	\$15.21	3.097%	\$6,497	\$5,145
2032	408	\$15.68	3.097%	\$6,397	\$4,949
2033	390	\$16.16	3.097%	\$6,299	\$4,761
2034	372	\$16.66	3.097%	\$6,203	\$4,580
2035	355	\$17.18	3.097%	\$6,108	\$4,406
				\$102,293	\$91,300

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change³ = Number of generic injectable Naloxone doses for emergency departments x cost per generic injectable Naloxone dose

Schedule: 2B8. Assertive Community Treatment (ACT)

2B8.4 Addiction Counselor

Year	Number of Addiction Counselors Required ¹	Median Wage of Addiction Counselors ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	1.7	\$43,623	26.7%	\$55,288	1.970%	\$95,811	\$95,811
2022	3.5	\$44,482	26.7%	\$56,377	1.970%	\$41,679	\$41,542
2023	3.6	\$45,359	26.7%	\$57,487	1.970%	\$43,283	\$42,999
2024	3.6	\$46,252	26.7%	\$58,620	1.970%	\$44,646	\$44,207
2025	3.6	\$47,163	26.7%	\$59,775	1.970%	\$45,763	\$45,164
2026	3.6	\$48,092	26.7%	\$60,952	1.970%	\$46,630	\$43,542
2027	3.6	\$49,040	26.7%	\$62,153	1.970%	\$47,244	\$43,514
2028	3.6	\$50,006	26.7%	\$63,377	1.970%	\$47,603	\$43,248
2029	3.5	\$50,991	26.7%	\$64,626	1.970%	\$47,707	\$42,753
2030	3.4	\$51,996	26.7%	\$65,899	1.970%	\$47,556	\$42,038
2031	3.3	\$53,020	26.7%	\$67,197	1.970%	\$47,153	\$37,343
2032	3.2	\$54,064	26.7%	\$68,521	1.970%	\$46,498	\$35,975
2033	3.1	\$55,129	26.7%	\$69,871	1.970%	\$45,597	\$34,464
2034	3.0	\$56,215	26.7%	\$71,247	1.970%	\$44,451	\$32,824
2035	2.8	\$57,323	26.7%	\$72,651	1.970%	\$43,066	\$31,068
						\$734,688	\$656,491

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Substance Abuse, Behavioral Disorder, and Mental Health Counselors (SOC 21-1018)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Addiction Counselors SOC 21-1018)⁶ = Total Addiction Counselors x Total Compensation

2B8.3 Psychiatric Nurse

Youngstown 29-1141 Registered Nurses \$ 28.13 \$ 58,510

Year	Cost	Growth	Cost	Year
2019	\$58,510	1.277%	\$59,258	2020
2020	\$59,258	1.277%	\$60,014	2021
2021	\$60,014	1.277%	\$60,781	2022
2022	\$60,781	1.277%	\$61,557	2023
2023	\$61,557	1.277%	\$62,343	2024
2024	\$62,343	1.277%	\$63,139	2025
2025	\$63,139	1.277%	\$63,945	2026
2026	\$63,945	1.277%	\$64,762	2027
2027	\$64,762	1.277%	\$65,589	2028
2028	\$65,589	1.277%	\$66,426	2029
2029	\$66,426	1.277%	\$67,275	2030
2030	\$67,275	1.277%	\$68,134	2031
2031	\$68,134	1.277%	\$69,004	2032
2032	\$69,004	1.277%	\$69,885	2033
2033	\$69,885	1.277%	\$70,778	2034
2034	\$70,778	1.277%	\$71,681	2035
2035	\$71,681	1.277%	\$72,597	2036

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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2E3. Injectable Naloxone for Emergency Departments

First Responders Naloxone

PDMS				
Year	Cost	Growth	Cost	Year
2020		3.097%	\$11.21	2021
2021	\$11.21	3.097%	\$11.56	2022
2022	\$11.56	3.097%	\$11.92	2023
2023	\$11.92	3.097%	\$12.28	2024
2024	\$12.28	3.097%	\$12.66	2025
2025	\$12.66	3.097%	\$13.06	2026
2026	\$13.06	3.097%	\$13.46	2027
2027	\$13.46	3.097%	\$13.88	2028
2028	\$13.88	3.097%	\$14.31	2029
2029	\$14.31	3.097%	\$14.75	2030
2030	\$14.75	3.097%	\$15.21	2031
2031	\$15.21	3.097%	\$15.68	2032
2032	\$15.68	3.097%	\$16.16	2033
2033	\$16.16	3.097%	\$16.66	2034
2034	\$16.66	3.097%	\$17.18	2035
2035	\$17.18			

Source: Alexander

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Schedule: 2E. Distributing Naloxone and Providing Training

2E4a. Naloxone for High-Risk Patients (Take Home Kits)

Year	Number of Take-Home Kits for OUD Population ¹	Cost per Take- Home Kit ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	1,134	\$8.19	3.097%	\$9,284	\$9,284
2022	1,199	\$8.44	3.097%	\$10,121	\$10,088
2023	1,256	\$8.71	3.097%	\$10,930	\$10,859
2024	1,305	\$8.97	3.097%	\$11,713	\$11,598
2025	1,348	\$9.25	3.097%	\$12,469	\$12,305
2026	1,384	\$9.54	3.097%	\$13,198	\$12,324
2027	1,414	\$9.83	3.097%	\$13,903	\$12,806
2028	1,438	\$10.14	3.097%	\$14,583	\$13,249
2029	1,458	\$10.45	3.097%	\$15,239	\$13,656
2030	1,473	\$10.78	3.097%	\$15,871	\$14,030
2031	1,483	\$11.11	3.097%	\$16,481	\$13,052
2032	1,490	\$11.45	3.097%	\$17,068	\$13,205
2033	1,493	\$11.81	3.097%	\$17,633	\$13,328
2034	1,493	\$12.18	3.097%	\$18,177	\$13,422
2035	1,490	\$12.55	3.097%	\$18,700	\$13,490
				\$215,371	\$186,696

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U),

U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change

³ = Number of take-home kits for OUD population x cost per take-home kit

Schedule: 2B8. Assertive Community Treatment (ACT)

2B8.3 Psychiatric Nurse

Year	Number of Psychiatric Nurses Required ¹	Median Wage of Psychiatric Nurses ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.9	\$60,014	26.7%	\$76,062	1.277%	\$65,906	\$65,906
2022	1.8	\$60,781	26.7%	\$77,033	1.277%	\$28,475	\$28,382
2023	1.8	\$61,557	26.7%	\$78,017	1.277%	\$29,370	\$29,177
2024	1.8	\$62,343	26.7%	\$79,013	1.277%	\$30,089	\$29,793
2025	1.8	\$63,139	26.7%	\$80,022	1.277%	\$30,632	\$30,231
2026	1.8	\$63,945	26.7%	\$81,044	1.277%	\$31,001	\$28,947
2027	1.8	\$64,762	26.7%	\$82,079	1.277%	\$31,195	\$28,732
2028	1.8	\$65,589	26.7%	\$83,127	1.277%	\$31,219	\$28,363
2029	1.7	\$66,426	26.7%	\$84,189	1.277%	\$31,074	\$27,847
2030	1.7	\$67,275	26.7%	\$85,264	1.277%	\$30,766	\$27,195
2031	1.7	\$68,134	26.7%	\$86,353	1.277%	\$30,297	\$23,994
2032	1.6	\$69,004	26.7%	\$87,456	1.277%	\$29,674	\$22,958
2033	1.5	\$69,885	26.7%	\$88,572	1.277%	\$28,900	\$21,844
2034	1.5	\$70,778	26.7%	\$89,703	1.277%	\$27,983	\$20,663
2035	1.4	\$71,681	26.7%	\$90,849	1.277%	\$26,927	\$19,425
						\$483,508	\$433,459

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Psychiatric Nurses (SOC 29-1141)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Psychiatric Nurses SOC 29-1141)⁶ = Total Psychiatric Nurses x Total Compensation

2B8.2 Psychiatrists

29-1223 Psychiatrists		2019\$	\$	72.98	
		CPI	\$	151,798	
Physician Services					
<u>Year</u>	<u>Cost</u>	<u>Growth</u>	<u>Cost</u>	<u>Year</u>	
2019	\$151,798.40	1.770%	\$154,485.23	2020	
2020	\$154,485.23	1.770%	\$157,219.62	2021	
2021	\$157,219.62	1.770%	\$160,002.41	2022	
2022	\$160,002.41	1.770%	\$162,834.45	2023	
2023	\$162,834.45	1.770%	\$165,716.62	2024	
2024	\$165,716.62	1.770%	\$168,649.80	2025	
2025	\$168,649.80	1.770%	\$171,634.91	2026	
2026	\$171,634.91	1.770%	\$174,672.84	2027	
2027	\$174,672.84	1.770%	\$177,764.55	2028	
2028	\$177,764.55	1.770%	\$180,910.99	2029	
2029	\$180,910.99	1.770%	\$184,113.11	2030	
2030	\$184,113.11	1.770%	\$187,371.91	2031	
2031	\$187,371.91	1.770%	\$190,688.39	2032	
2032	\$190,688.39	1.770%	\$194,063.58	2033	
2033	\$194,063.58	1.770%	\$197,498.50	2034	
2034	\$197,498.50	1.770%	\$200,994.23	2035	
2035	\$200,994.23	1.770%	\$204,551.83	2036	

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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2E4a. Naloxone for High-Risk Patients (Take Home Kits)

Take-Home Kit Cost

		Rx		
<u>Year</u>	<u>Cost</u>	<u>Growth</u>	<u>Cost</u>	<u>Year</u>
2020	\$10.00	3.097%	\$8.19	2021
2021	\$8.19	3.097%	\$8.44	2022
2022	\$8.44	3.097%	\$8.71	2023
2023	\$8.71	3.097%	\$8.97	2024
2024	\$8.97	3.097%	\$9.25	2025
2025	\$9.25	3.097%	\$9.54	2026
2026	\$9.54	3.097%	\$9.83	2027
2027	\$9.83	3.097%	\$10.14	2028
2028	\$10.14	3.097%	\$10.45	2029
2029	\$10.45	3.097%	\$10.78	2030
2030	\$10.78	3.097%	\$11.11	2031
2031	\$11.11	3.097%	\$11.45	2032
2032	\$11.45	3.097%	\$11.81	2033
2033	\$11.81	3.097%	\$12.18	2034
2034	\$12.18	3.097%	\$12.55	2035
2035	\$12.55			

Source: Alexander

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Schedule: 2E. Distributing Naloxone and Providing Training
 2E4b. Narcan for Opioid Use Disorder Population (Narcan doses)

Year	Number of Narcan Doses for OUD Population ¹	Nasal Spray (Narcan) Single-Use Spray Cost ¹	Annual cost growth rate ²	Total Cost ⁴	Present Value
2021	2,267	\$59.94	3.097%	\$135,887	\$135,887
2022	2,397	\$61.80	3.097%	\$148,143	\$147,656
2023	2,511	\$63.71	3.097%	\$159,992	\$158,941
2024	2,610	\$65.68	3.097%	\$171,443	\$169,757
2025	2,695	\$67.72	3.097%	\$182,506	\$180,117
2026	2,767	\$69.81	3.097%	\$193,191	\$180,395
2027	2,827	\$71.98	3.097%	\$203,505	\$187,440
2028	2,877	\$74.21	3.097%	\$213,458	\$193,931
2029	2,916	\$76.50	3.097%	\$223,059	\$199,895
2030	2,945	\$78.87	3.097%	\$232,316	\$205,356
2031	2,967	\$81.32	3.097%	\$241,237	\$191,047
2032	2,980	\$83.83	3.097%	\$249,830	\$193,291
2033	2,986	\$86.43	3.097%	\$258,104	\$195,088
2034	2,986	\$89.11	3.097%	\$266,066	\$196,470
2035	2,980	\$91.87	3.097%	\$273,723	\$197,464
				\$3,152,461	\$2,732,735

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change

Schedule: 2B8. Assertive Community Treatment (ACT)
 2B8.2 Psychiatrists

Year	Number of Psychiatrists Required ¹	Median Wage of Psychiatrists ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.9	\$157,220	26.7%	\$199,260	1.770%	\$172,654	\$172,654
2022	1.8	\$160,002	26.7%	\$202,787	1.770%	\$74,960	\$74,714
2023	1.8	\$162,834	26.7%	\$206,376	1.770%	\$77,692	\$77,182
2024	1.8	\$165,717	26.7%	\$210,029	1.770%	\$79,982	\$79,195
2025	1.8	\$168,650	26.7%	\$213,747	1.770%	\$81,822	\$80,751
2026	1.8	\$171,635	26.7%	\$217,530	1.770%	\$83,208	\$77,697
2027	1.8	\$174,673	26.7%	\$221,380	1.770%	\$84,138	\$77,496
2028	1.8	\$177,765	26.7%	\$225,299	1.770%	\$84,611	\$76,871
2029	1.7	\$180,911	26.7%	\$229,287	1.770%	\$84,630	\$75,841
2030	1.7	\$184,113	26.7%	\$233,345	1.770%	\$84,197	\$74,426
2031	1.7	\$187,372	26.7%	\$237,475	1.770%	\$83,319	\$65,984
2032	1.6	\$190,688	26.7%	\$241,678	1.770%	\$82,002	\$63,444
2033	1.5	\$194,064	26.7%	\$245,956	1.770%	\$80,253	\$60,660
2034	1.5	\$197,499	26.7%	\$250,310	1.770%	\$78,083	\$57,659
2035	1.4	\$200,994	26.7%	\$254,740	1.770%	\$75,502	\$54,467
						\$1,307,054	\$1,169,040

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Median Annual Wage of Psychiatrists (SOC 29-1223)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ = wages + Fringe benefits.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics:

CLE & YNG Metropolitan Statistical Areas. May 2019 (Psychiatrists SOC 29-1223); CPI Physician Services.

⁶ = Total Psychiatrists x Total Compensation

2B8.1 Team Leaders

Number and Compensation of Community Liasons

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$15.29	cle	17.92	yng	15.29
Annual Hours:	2,080				
Median Annual Wage:	\$31,803.20				

Year	Wage	Growth	Wage	Year
2019	\$31,803.20	2.43%	\$32,576.34	2020
2020	\$32,576.34	2.43%	\$33,368.27	2021
2021	\$33,368.27	2.43%	\$34,179.45	2022
2022	\$34,179.45	2.43%	\$35,010.35	2023
2023	\$35,010.35	2.43%	\$35,861.45	2024
2024	\$35,861.45	2.43%	\$36,733.25	2025
2025	\$36,733.25	2.43%	\$37,626.23	2026
2026	\$37,626.23	2.43%	\$38,540.92	2027
2027	\$38,540.92	2.43%	\$39,477.85	2028
2028	\$39,477.85	2.43%	\$40,437.56	2029
2029	\$40,437.56	2.43%	\$41,420.60	2030
2030	\$41,420.60	2.43%	\$42,427.53	2031
2031	\$42,427.53	2.43%	\$43,458.95	2032
2032	\$43,458.95	2.43%	\$44,515.43	2033
2033	\$44,515.43	2.43%	\$45,597.60	2034
2034	\$45,597.60	2.43%	\$46,706.08	2035
2035	\$46,706.08	2.43%		

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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2E4b. Narcan for Opioid Use Disorder Population (Narcan doses)

Nasal Spray (Narcan) Sing-Use Spray Cost

Year	Cost	Growth	Cost	Year
2019	\$0.00	3.097%	\$0.00	2020
2020	\$0.00	3.097%	\$59.94	2021
2021	\$59.94	3.097%	\$61.80	2022
2022	\$61.80	3.097%	\$63.71	2023
2023	\$63.71	3.097%	\$65.68	2024
2024	\$65.68	3.097%	\$67.72	2025
2025	\$67.72	3.097%	\$69.81	2026
2026	\$69.81	3.097%	\$71.98	2027
2027	\$71.98	3.097%	\$74.21	2028
2028	\$74.21	3.097%	\$76.50	2029
2029	\$76.50	3.097%	\$78.87	2030
2030	\$78.87	3.097%	\$81.32	2031
2031	\$81.32	3.097%	\$83.83	2032
2032	\$83.83	3.097%	\$86.43	2033
2033	\$86.43	3.097%	\$89.11	2034
2034	\$89.11	3.097%	\$91.87	2035
2035	\$91.87			

Source: Alexander

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Schedule: 2E. Distributing Naloxone and Providing Training

2E5a. Naloxone Public Lock Boxes (Boxes)

Year	Number of Naloxone Public Lock Boxes ¹	Cost per Naloxone Public Lock Box (Excluding Narcan) ¹	Annual cost growth rate ⁵	Total Estimated Cost ⁶	Present Value
2021	229	\$275.00	0.000%	\$62,975	\$62,975
2022	0	\$281.37	2.316%	\$0	\$0
2023	0	\$287.89	2.316%	\$0	\$0
2024	0	\$294.55	2.316%	\$0	\$0
2025	0	\$301.37	2.316%	\$0	\$0
2026	0	\$308.35	2.316%	\$0	\$0
2027	0	\$315.50	2.316%	\$0	\$0
2028	0	\$322.80	2.316%	\$0	\$0
2029	0	\$330.28	2.316%	\$0	\$0
2030	0	\$337.93	2.316%	\$0	\$0
2031	0	\$345.75	2.316%	\$0	\$0
2032	0	\$353.76	2.316%	\$0	\$0
2033	0	\$361.96	2.316%	\$0	\$0
2034	0	\$370.34	2.316%	\$0	\$0
2035	0	\$378.92	2.316%	\$0	\$0
				\$62,975	\$62,975

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Commodities. 2009-2019 Annual Average Percent Change⁶ = Number of Naloxone public lock boxes x cost per Naloxone lock box

Schedule: 2B8. Assertive Community Treatment (ACT)

2B8.1 Team Leaders

Year	Number of Team Leaders Required ¹	Median Wage of Team Leaders ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.9	\$33,368	26.7%	\$42,291	2.431%	\$36,644	\$36,644
2022	1.8	\$34,179	26.7%	\$43,319	2.431%	\$16,013	\$15,960
2023	1.8	\$35,010	26.7%	\$44,372	2.431%	\$16,704	\$16,595
2024	1.8	\$35,861	26.7%	\$45,451	2.431%	\$17,308	\$17,138
2025	1.8	\$36,733	26.7%	\$46,556	2.431%	\$17,821	\$17,588
2026	1.8	\$37,626	26.7%	\$47,687	2.431%	\$18,241	\$17,033
2027	1.8	\$38,541	26.7%	\$48,847	2.431%	\$18,565	\$17,099
2028	1.8	\$39,478	26.7%	\$50,034	2.431%	\$18,790	\$17,071
2029	1.7	\$40,438	26.7%	\$51,251	2.431%	\$18,917	\$16,952
2030	1.7	\$41,421	26.7%	\$52,496	2.431%	\$18,942	\$16,744
2031	1.7	\$42,428	26.7%	\$53,773	2.431%	\$18,866	\$14,941
2032	1.6	\$43,459	26.7%	\$55,080	2.431%	\$18,689	\$14,459
2033	1.5	\$44,515	26.7%	\$56,419	2.431%	\$18,409	\$13,914
2034	1.5	\$45,598	26.7%	\$57,790	2.431%	\$18,028	\$13,312
2035	1.4	\$46,706	26.7%	\$59,195	2.431%	\$17,545	\$12,657
						\$289,482	\$258,108

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = wages + Fringe benefits.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014)⁶ = Total Team Leaders x Total Compensation

2B7. Naltrexone

Cpi Rx				
Year	Cost	Growth	Cost	Year
2020	\$0.00	3.10%	\$44.50	2021
2021	\$44.50	3.10%	\$45.88	2022
2022	\$45.88	3.10%	\$47.30	2023
2023	\$47.30	3.10%	\$48.76	2024
2024	\$48.76	3.10%	\$50.28	2025
2025	\$50.28	3.10%	\$51.83	2026
2026	\$51.83	3.10%	\$53.44	2027
2027	\$53.44	3.10%	\$55.09	2028
2028	\$55.09	3.10%	\$56.80	2029
2029	\$56.80	3.10%	\$58.56	2030
2030	\$58.56	3.10%	\$60.37	2031
2031	\$60.37	3.10%	\$62.24	2032
2032	\$62.24	3.10%	\$64.17	2033
2033	\$64.17	3.10%	\$66.16	2034
2034	\$66.16	3.10%	\$68.20	2035
2035	\$68.20			

2021\$
 \$1,354 mo
 \$16,242.84 yr
 \$44.50 day

Source: Alexander- \$1,354/month \$44.50/day (2021\$)

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2E5a. Naloxone Public Lock Boxes (Boxes)

Naloxone Public Lock Boxes

CPI				
Med Care				
Commodities				
Year	Cost	Growth	Cost	Year
2020	\$275.00	2.316%	\$275.00	2021
2021	\$275.00	2.316%	\$281.37	2022
2022	\$281.37	2.316%	\$287.89	2023
2023	\$287.89	2.316%	\$294.55	2024
2024	\$294.55	2.316%	\$301.37	2025
2025	\$301.37	2.316%	\$308.35	2026
2026	\$308.35	2.316%	\$315.50	2027
2027	\$315.50	2.316%	\$322.80	2028
2028	\$322.80	2.316%	\$330.28	2029
2029	\$330.28	2.316%	\$337.93	2030
2030	\$337.93	2.316%	\$345.75	2031
2031	\$345.75	2.316%	\$353.76	2032
2032	\$353.76	2.316%	\$361.96	2033
2033	\$361.96	2.316%	\$370.34	2034
2034	\$370.34	2.316%	\$378.92	2035
2035	\$378.92			

Source: Alexander

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Schedule: 2E. Distributing Naloxone and Providing Training
2E5b. Narcan for Public Lock Boxes (Doses for boxes)

Year	Number of Narcan Doses Needed for Public Lock Boxes ¹	Nasal Spray (Narcan) Single-Use Spray Cost ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	457	\$59.94	3.097%	\$27,405	\$27,405
2022	0	\$61.80	3.097%	\$0	\$0
2023	0	\$63.71	3.097%	\$0	\$0
2024	457	\$65.68	3.097%	\$30,030	\$29,735
2025	0	\$67.72	3.097%	\$0	\$0
2026	0	\$69.81	3.097%	\$0	\$0
2027	457	\$71.98	3.097%	\$32,908	\$30,310
2028	0	\$74.21	3.097%	\$0	\$0
2029	0	\$76.50	3.097%	\$0	\$0
2030	457	\$78.87	3.097%	\$36,061	\$31,876
2031	0	\$81.32	3.097%	\$0	\$0
2032	0	\$83.83	3.097%	\$0	\$0
2033	457	\$86.43	3.097%	\$39,516	\$29,868
2034	0	\$89.11	3.097%	\$0	\$0
2035	0	\$91.87	3.097%	\$0	\$0
				\$165,920	\$149,194

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change³ = Number of Narcan doses needed for public lock boxes × nasal spray Narcan single-use spray costSchedule: 2B. Treating Opioid Use Disorder- Medications 2021-2035
2B7. Naltrexone

Year	Number Receiving MAT- Naltrexone ¹	Average Cost Per Day of Naltrexone ¹	Number of days per year	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	55	\$44.50	365	3.097%	\$900,738	\$900,738
2022	59	\$45.88	365	3.097%	\$984,241	\$981,003
2023	62	\$47.30	365	3.097%	\$1,069,431	\$1,062,408
2024	65	\$48.76	365	3.097%	\$1,156,170	\$1,144,799
2025	68	\$50.28	365	3.097%	\$1,244,323	\$1,228,033
2026	70	\$51.83	365	3.097%	\$1,333,761	\$1,245,422
2027	73	\$53.44	365	3.097%	\$1,424,357	\$1,311,913
2028	75	\$55.09	365	3.097%	\$1,515,992	\$1,377,307
2029	78	\$56.80	365	3.097%	\$1,608,549	\$1,441,505
2030	80	\$58.56	365	3.097%	\$1,701,917	\$1,504,415
2031	82	\$60.37	365	3.097%	\$1,795,987	\$1,422,330
2032	83	\$62.24	365	3.097%	\$1,890,656	\$1,462,782
2033	85	\$64.17	365	3.097%	\$1,985,824	\$1,500,989
2034	86	\$66.16	365	3.097%	\$2,081,396	\$1,536,955
2035	87	\$68.20	365	3.097%	\$2,177,279	\$1,570,689
					\$22,870,621	\$19,691,288

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change³ = Number of individuals receiving MAT Naltrexone × average cost per day of Naltrexone × 365 days per year

2B6. Methadone

Methadone: Cost per day

5mg:	\$1.77	5mg	10mg
10mg:	<u>\$0.94</u>	2021\$	2021\$
Average:	\$1.35	\$53.76 mo	\$28.56
		\$645.15 yr	\$342.75
		\$1.77 day	\$0.94

Year	Cost	CPI Rx Growth	Cost	Year
2020	\$0.00	3.10%	\$1.35	2021
2021	\$1.35	3.10%	\$1.40	2022
2022	\$1.40	3.10%	\$1.44	2023
2023	\$1.44	3.10%	\$1.48	2024
2024	\$1.48	3.10%	\$1.53	2025
2025	\$1.53	3.10%	\$1.58	2026
2026	\$1.58	3.10%	\$1.63	2027
2027	\$1.63	3.10%	\$1.68	2028
2028	\$1.68	3.10%	\$1.73	2029
2029	\$1.73	3.10%	\$1.78	2030
2030	\$1.78	3.10%	\$1.84	2031
2031	\$1.84	3.10%	\$1.89	2032
2032	\$1.89	3.10%	\$1.95	2033
2033	\$1.95	3.10%	\$2.01	2034
2034	\$2.01	3.10%	\$2.07	2035
2035	\$2.07			

Source: Alexander- Average of 5 & 10mg \$1.35/day (2021\$)

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2E5b. Narcan for Public Lock Boxes (Doses for boxes)

Nasal Spray (Narcan) Sing-Use Spray Cost

Year	Cost	Rx Growth	Cost	Year
2019	\$0.00	3.097%	\$0.00	2020
2020	\$0.00	3.097%	\$59.94	2021
2021	\$59.94	3.097%	\$61.80	2022
2022	\$61.80	3.097%	\$63.71	2023
2023	\$63.71	3.097%	\$65.68	2024
2024	\$65.68	3.097%	\$67.72	2025
2025	\$67.72	3.097%	\$69.81	2026
2026	\$69.81	3.097%	\$71.98	2027
2027	\$71.98	3.097%	\$74.21	2028
2028	\$74.21	3.097%	\$76.50	2029
2029	\$76.50	3.097%	\$78.87	2030
2030	\$78.87	3.097%	\$81.32	2031
2031	\$81.32	3.097%	\$83.83	2032
2032	\$83.83	3.097%	\$86.43	2033
2033	\$86.43	3.097%	\$89.11	2034
2034	\$89.11	3.097%	\$91.87	2035
2035	\$91.87			

Source: Alexander

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Lake Exhibit 1-3

Category 3: Recovery –Enhancing Public Safety and Reintegration

- 3A. Public Safety
- 3B. Criminal Justice System
- 3C. Vocational Training and Job Placement
- 3D. Reengineering the Workplace
- 3E. Mental Health Counseling and Grief Support

Schedule: 2B. Treating Opioid Use Disorder- Medications 2021-2035

2B6. Methadone

Year	Number of Individuals Receiving MAT- Methadone ¹	Average Cost Per Day of Methadone ¹	Number of days Required per year	Annual cost growth rate ²	Total Estimated Cost ⁴	Present Value
2021	286	\$1.35	365	3.097%	\$141,239	\$141,239
2022	303	\$1.40	365	3.097%	\$154,332	\$153,824
2023	319	\$1.44	365	3.097%	\$167,690	\$166,589
2024	335	\$1.48	365	3.097%	\$181,291	\$179,508
2025	350	\$1.53	365	3.097%	\$195,114	\$192,560
2026	364	\$1.58	365	3.097%	\$209,138	\$195,286
2027	377	\$1.63	365	3.097%	\$223,344	\$205,712
2028	389	\$1.68	365	3.097%	\$237,712	\$215,966
2029	400	\$1.73	365	3.097%	\$252,226	\$226,033
2030	411	\$1.78	365	3.097%	\$266,866	\$235,897
2031	420	\$1.84	365	3.097%	\$281,617	\$223,026
2032	429	\$1.89	365	3.097%	\$296,461	\$229,369
2033	437	\$1.95	365	3.097%	\$311,384	\$235,360
2034	444	\$2.01	365	3.097%	\$326,370	\$240,999
2035	451	\$2.07	365	3.097%	\$341,404	\$246,289
					\$3,586,187	\$3,087,658

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change⁴ = Number of individuals receiving MAT Methadone × average cost per day of Methadone × 365 days per year

285. Buprenorphine

Buprenorphine: Cost per day

Year	Cost	CPI Rx Growth	Cost	Year	2021\$
2020		3.10%	\$3.07	2021	\$93.36 mo
2021	\$3.07	3.10%	\$3.16	2022	\$1,120.35 yr
2022	\$3.16	3.10%	\$3.26	2023	\$3.07 day
2023	\$3.26	3.10%	\$3.36	2024	
2024	\$3.36	3.10%	\$3.47	2025	
2025	\$3.47	3.10%	\$3.58	2026	
2026	\$3.58	3.10%	\$3.69	2027	
2027	\$3.69	3.10%	\$3.80	2028	
2028	\$3.80	3.10%	\$3.92	2029	
2029	\$3.92	3.10%	\$4.04	2030	
2030	\$4.04	3.10%	\$4.16	2031	
2031	\$4.16	3.10%	\$4.29	2032	
2032	\$4.29	3.10%	\$4.43	2033	
2033	\$4.43	3.10%	\$4.56	2034	
2034	\$4.56	3.10%	\$4.70	2035	
2035	\$4.70				

Source: Alexander- \$93.36/month \$3.07/day (2021\$)

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Schedule: 3A Public Safety

3A1. Law Enforcement Assisted Diversion (LEAD)

Year	LEAD programs to be established for police departments ¹	Cost per LEAD per police department ²	Annual cost growth rate ³	Total Estimated Cost ⁴	Present Value
2021	4.8	\$30,061	2.092%	\$142,791	\$142,791
2022	4.8	\$30,690	2.092%	\$145,778	\$145,299
2023	4.8	\$31,332	2.092%	\$148,828	\$147,850
2024	4.8	\$31,988	2.092%	\$151,941	\$150,447
2025	4.8	\$32,657	2.092%	\$155,120	\$153,089
2026	4.8	\$33,340	2.092%	\$158,365	\$147,876
2027	4.8	\$34,037	2.092%	\$161,678	\$148,915
2028	4.8	\$34,750	2.092%	\$165,060	\$149,960
2029	4.8	\$35,477	2.092%	\$168,513	\$151,014
2030	4.8	\$36,219	2.092%	\$172,039	\$152,074
2031	4.8	\$36,976	2.092%	\$175,638	\$139,096
2032	4.8	\$37,750	2.092%	\$179,312	\$138,732
2033	4.8	\$38,540	2.092%	\$183,063	\$138,369
2034	4.8	\$39,346	2.092%	\$186,893	\$138,006
2035	4.8	\$40,169	2.092%	\$190,803	\$137,645
				\$2,485,822	\$2,181,163

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Lead Program Evaluation: Criminal Justice and Legal System Utilization and Associated Costs, University of Washington, June 24, 2015.³ U.S. Department of Labor, Bureau of Labor Statistics. ECI State and Local Workers, 2009-2019 Annual Average Percent Change⁴ = Number of police departments to establish LEAD x cost per LEAD per police department

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3A1. Law Enforcement Assisted Diversion (LEAD)

\$ 24,275 2011\$

Lead Program Evaluation: Criminal Justice and

		ECI State & Govt Wkrs		
Cost	Growth	Wage	Year	
\$ 24,275	1.21%	\$24,569.24	2012	
\$24,569	1.80%	\$25,010.61	2013	
\$25,011	1.68%	\$25,430.95	2014	
\$25,431	2.07%	\$25,956.39	2015	
\$25,956	2.59%	\$26,628.94	2016	
\$26,629	2.37%	\$27,259.46	2017	
\$27,259	2.39%	\$27,911.00	2018	
\$27,911	2.48%	\$28,604.57	2019	
\$28,605	2.94%	\$29,445.26	2020	
\$29,445	2.09%	\$30,061.25	2021	
\$30,061	2.09%	\$30,690.14	2022	
\$30,690	2.09%	\$31,332.17	2023	
\$31,332	2.09%	\$31,987.64	2024	
\$31,988	2.09%	\$32,656.82	2025	
\$32,657	2.09%	\$33,340.00	2026	
\$33,340	2.09%	\$34,037.48	2027	
\$34,037	2.09%	\$34,749.54	2028	
\$34,750	2.09%	\$35,476.50	2029	
\$35,477	2.09%	\$36,218.67	2030	
\$36,219	2.09%	\$36,976.37	2031	
\$36,976	2.09%	\$37,749.91	2032	
\$37,750	2.09%	\$38,539.64	2033	
\$38,540	2.09%	\$39,345.89	2034	
\$39,346	2.09%	\$40,169.00	2035	
\$40,169	2.09%			

Source: Legal System Utilization and Associated Costs, University of Washington,
June 24, 2015, page 16.

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Schedule: 2B. Treating Opioid Use Disorder- Medications 2021-2035**2B5. Buprenorphine**

Year	Number Receiving MAT- Buprenorphine ¹	Average Cost Per Day of Buprenorphine ¹	Number of days Required per year	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	525	\$3.07	365	3.097%	\$588,278	\$588,278
2022	557	\$3.16	365	3.097%	\$642,815	\$640,700
2023	587	\$3.26	365	3.097%	\$698,453	\$693,866
2024	615	\$3.36	365	3.097%	\$755,103	\$747,677
2025	642	\$3.47	365	3.097%	\$812,676	\$802,037
2026	668	\$3.58	365	3.097%	\$871,089	\$813,394
2027	691	\$3.69	365	3.097%	\$930,258	\$856,820
2028	714	\$3.80	365	3.097%	\$990,105	\$899,529
2029	735	\$3.92	365	3.097%	\$1,050,555	\$941,457
2030	754	\$4.04	365	3.097%	\$1,111,534	\$982,544
2031	772	\$4.16	365	3.097%	\$1,172,972	\$928,934
2032	788	\$4.29	365	3.097%	\$1,234,801	\$955,353
2033	803	\$4.43	365	3.097%	\$1,296,956	\$980,307
2034	816	\$4.56	365	3.097%	\$1,359,374	\$1,003,796
2035	828	\$4.70	365	3.097%	\$1,421,996	\$1,025,828
					\$14,936,965	\$12,860,520

Notes and Sources:¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Prescription Drugs and Medical Supplies. 2009-2019 Annual Average Percent Change³ = Number of individuals receiving MAT Buprenorphine × average cost per day of Buprenorphine
× 365 days per year

2B4. Inpatient Treatment

Inpatient Hospital				
Year	Cost	Growth	Cost	Year
2017	\$187.79	4.22%	\$195.71	2018
2018	\$195.71	2.85%	\$201.29	2019
2019	\$201.29	3.30%	\$207.94	2020
2020	\$207.94	4.88%	\$218.07	2021
2021	\$218.07	4.88%	\$228.70	2022
2022	\$228.70	4.88%	\$239.85	2023
2023	\$239.85	4.88%	\$251.55	2024
2024	\$251.55	4.88%	\$263.81	2025
2025	\$263.81	4.88%	\$276.67	2026
2026	\$276.67	4.88%	\$290.16	2027
2027	\$290.16	4.88%	\$304.30	2028
2028	\$304.30	4.88%	\$319.14	2029
2029	\$319.14	4.88%	\$334.69	2030
2030	\$334.69	4.88%	\$351.01	2031
2031	\$351.01	4.88%	\$368.12	2032
2032	\$368.12	4.88%	\$386.07	2033
2033	\$386.07	4.88%	\$404.89	2034
2034	\$404.89	4.88%	\$424.63	2035
2035	\$424.63			

Source: Alexander- \$5,714/month_ \$1187.79/day (2017\$)

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Schedule: 3A Public Safety

3A2. Specialized Overdose Units

Year	Number of Investigators for a specialized overdose unit ¹	Median annual detective salary ¹⁰	Employer Paid Fringe Benefits (percent of wages) ⁶	Total annual Compensation ¹¹	Annual cost growth rate ⁸	Total Cost ¹²	Present Value
2021	1.9	\$67,312	26.74%	\$85,311	2.092%	\$162,964	\$162,964
2022	1.8	\$68,720	26.74%	\$87,096	2.092%	\$158,904	\$158,382
2023	1.7	\$70,158	26.74%	\$88,918	2.092%	\$154,946	\$153,929
2024	1.7	\$71,626	26.74%	\$90,778	2.092%	\$151,087	\$149,601
2025	1.6	\$73,124	26.74%	\$92,677	2.092%	\$147,323	\$145,395
2026	1.5	\$74,654	26.74%	\$94,616	2.092%	\$143,654	\$134,139
2027	1.5	\$76,216	26.74%	\$96,596	2.092%	\$140,075	\$129,017
2028	1.4	\$77,810	26.74%	\$98,616	2.092%	\$136,586	\$124,091
2029	1.3	\$79,438	26.74%	\$100,679	2.092%	\$133,184	\$119,353
2030	1.3	\$81,100	26.74%	\$102,786	2.092%	\$129,867	\$114,796
2031	1.2	\$82,796	26.74%	\$104,936	2.092%	\$126,632	\$100,286
2032	1.2	\$84,528	26.74%	\$107,131	2.092%	\$123,478	\$95,533
2033	1.1	\$86,297	26.74%	\$109,372	2.092%	\$120,402	\$91,006
2034	1.1	\$88,102	26.74%	\$111,560	2.092%	\$117,403	\$86,693
2035	1.0	\$89,945	26.74%	\$113,996	2.092%	\$114,479	\$82,585
						\$2,060,983	\$1,847,770

Notes and Sources:

¹ Celeb Alexander, M.D., M.S. Report, see Appendix D⁶ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019⁸ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, State and Local Government Workers. 2009-2019 Annual Average Percent Change.¹⁰ Average Median detective wage Akron, Cleveland and Elyria. www.Salary.com¹² Number of investigators for a specialized overdose unit x total annual compensation of detectives

3A2. Specialized Overdose Units

Specialized Overdose Units
Detectives

akr	\$	63,301	yng	\$	62,622
cle	\$	65,259			
Elyria	\$	63,591			
Med/Avg	\$	64,050	in 2019	\$	62,622

Salary.com

Average Detective Annual Wage:

Growth Source: Salary.com Median Income

Year	Cost	Growth	Wage	Year
2017	\$0.00	2.39%	\$0.00	2018
2018	\$0.00	2.48%	\$0.00	2019
2019	\$64,050.33	2.94%	\$65,932.78	2020
2020	\$65,932.78	2.09%	\$67,312.10	2021
2021	\$67,312.10	2.09%	\$68,720.27	2022
2022	\$68,720.27	2.09%	\$70,157.89	2023
2023	\$70,157.89	2.09%	\$71,625.60	2024
2024	\$71,625.60	2.09%	\$73,124.00	2025
2025	\$73,124.00	2.09%	\$74,653.76	2026
2026	\$74,653.76	2.09%	\$76,215.51	2027
2027	\$76,215.51	2.09%	\$77,809.94	2028
2028	\$77,809.94	2.09%	\$79,437.73	2029
2029	\$79,437.73	2.09%	\$81,099.56	2030
2030	\$81,099.56	2.09%	\$82,796.17	2031
2031	\$82,796.17	2.09%	\$84,528.26	2032
2032	\$84,528.26	2.09%	\$86,296.59	2033
2033	\$86,296.59	2.09%	\$88,101.92	2034
2034	\$88,101.92	2.09%	\$89,945.01	2035
2035	\$89,945.01			

Source: Salary.com Median Income

Schedule: 28. Showing Treating Opioid Use Disorder 2021-2035

284. Inpatient Treatment

Year	Number in Inpatient Treatment ¹	Average Cost Per Day of Inpatient Treatment ¹	Number of Days in Year Required ¹	Annual cost growth rate ⁶	Total Cost ⁷	Present Value
2021	51	\$218.07	365	4.875%	\$4,069,143	\$4,069,143
2022	54	\$228.70	365	4.875%	\$4,523,053	\$4,508,176
2023	57	\$239.85	365	4.875%	\$4,999,299	\$4,966,467
2024	60	\$251.55	365	4.875%	\$5,497,991	\$5,443,918
2025	63	\$263.81	365	4.875%	\$6,019,237	\$5,940,434
2026	65	\$276.67	365	4.875%	\$6,563,146	\$6,128,449
2027	67	\$290.16	365	4.875%	\$7,129,826	\$6,566,973
2028	69	\$304.30	365	4.875%	\$7,719,389	\$7,013,211
2029	72	\$319.14	365	4.875%	\$8,331,943	\$7,466,688
2030	73	\$334.69	365	4.875%	\$8,967,599	\$7,926,941
2031	75	\$351.01	365	4.875%	\$9,626,468	\$7,623,672
2032	77	\$368.12	365	4.875%	\$10,308,662	\$7,975,708
2033	78	\$386.07	365	4.875%	\$11,014,291	\$8,325,172
2034	79	\$404.89	365	4.875%	\$11,743,468	\$8,671,670
2035	81	\$424.63	365	4.875%	\$12,496,304	\$9,014,834
					\$119,009,819	\$101,641,455

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁶ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index,

All Urban Consumers (CPI-U), U.S. City Average -- Hospital Inpatient Services. 2009-2019 Annual Average Percent Change

⁷ = Number of Individuals with OUD in Inpatient treatment × average cost per day of Inpatient treatment × 365 days per year

2B3. Residential Treatment

CPI Inpatient Hospital				
Year	Cost	Growth	Cost	Year
Year	Cost	Growth	Wage	Year
2017	\$150.48	4.22%	\$156.83	2018
2018	\$156.83	2.85%	\$161.29	2019
2019	\$161.29	3.30%	\$166.62	2020
2020	\$166.62	4.88%	\$174.75	2021
2021	\$174.75	4.88%	\$183.26	2022
2022	\$183.26	4.88%	\$192.20	2023
2023	\$192.20	4.88%	\$201.57	2024
2024	\$201.57	4.88%	\$211.39	2025
2025	\$211.39	4.88%	\$221.70	2026
2026	\$221.70	4.88%	\$232.51	2027
2027	\$232.51	4.88%	\$243.84	2028
2028	\$243.84	4.88%	\$255.73	2029
2029	\$255.73	4.88%	\$268.20	2030
2030	\$268.20	4.88%	\$281.27	2031
2031	\$281.27	4.88%	\$294.98	2032
2032	\$294.98	4.88%	\$309.36	2033
2033	\$309.36	4.88%	\$324.45	2034
2034	\$324.45	4.88%	\$340.26	2035
2035	\$340.26	4.88%		

Source: Alexander- \$4,577/month_ \$150.48/day (2017\$)

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Schedule: 3A Public Safety
3A3. Stigma Reduction Training Hours

	Number of annual training hours ¹	Weighted average median hourly wage for police and correctional officers ¹³	Annual cost growth rate ³	Total Cost ¹¹	Present Value
2021	2,096	\$30.26	2.092%	\$63,428	\$63,428
2022	2,094	\$30.89	2.092%	\$64,696	\$64,483
2023	2,092	\$31.54	2.092%	\$65,989	\$65,555
2024	2,090	\$32.20	2.092%	\$67,308	\$66,646
2025	2,089	\$32.87	2.092%	\$68,653	\$67,754
2026	2,087	\$33.56	2.092%	\$70,025	\$65,387
2027	2,085	\$34.26	2.092%	\$71,425	\$65,787
2028	2,083	\$34.98	2.092%	\$72,853	\$66,188
2029	2,081	\$35.71	2.092%	\$74,309	\$66,592
2030	2,079	\$36.46	2.092%	\$75,794	\$66,999
2031	2,077	\$37.22	2.092%	\$77,309	\$61,225
2032	2,075	\$38.00	2.092%	\$78,855	\$61,009
2033	2,073	\$38.78	2.092%	\$80,431	\$60,794
2034	2,071	\$39.60	2.092%	\$82,039	\$60,579
2035	2,070	\$40.43	2.092%	\$83,679	\$60,366
				\$1,096,792	\$962,792

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, and Local Government Workers. 2009-2019 Annual Average Percent Change.¹¹ = Median annual police & correction officers salary + employer provided fringe benefits¹³ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019.

3A.3. Stigma Reduction Training Hours

Weighted Average Median Hourly Wage for Police Officers and Correctional Officers
Median Annual Wage of First-Line Supervisors of Police and Detectives (SOC 33-1012)
Median Annual Wage of Police and Sheriff's Patrol Officers (SOC 33-3021)
Median Annual Wage of Correctional Officers and Jailers (SOC 33-3012)

CLE MSA & YNG MSA, May 2019

First-Line Supervisors of Police and Detectives (SOC 33-1012)
Police and Sheriff's Patrol Officers (SOC 33-3021)
Correctional Officers and Jailers (SOC 33-3012)

Employed	% Employed	Wage	Weighted
670	8.44%	\$41.27	\$3.48
4920	61.96%	\$29.33	\$18.17
2350	29.60%	\$24.11	\$7.14
7,940	100.00%		\$28.79

cle

yng

670

\$

41.27

\$

34.47

4920

\$

29.33

\$

20.98

2350

\$

24.11

\$

22.03

Weighted Average Median Hourly Wage: \$28.79

Year	Wage	Growth	Wage	Year
2019	\$28.79	2.94%	\$29.64	2020
2020	\$29.64	2.09%	\$30.26	2021
2021	\$30.26	2.09%	\$30.89	2022
2022	\$30.89	2.09%	\$31.54	2023
2023	\$31.54	2.09%	\$32.20	2024
2024	\$32.20	2.09%	\$32.87	2025
2025	\$32.87	2.09%	\$33.56	2026
2026	\$33.56	2.09%	\$34.26	2027
2027	\$34.26	2.09%	\$34.98	2028
2028	\$34.98	2.09%	\$35.71	2029
2029	\$35.71	2.09%	\$36.46	2030
2030	\$36.46	2.09%	\$37.22	2031
2031	\$37.22	2.09%	\$38.00	2032
2032	\$38.00	2.09%	\$38.79	2033
2033	\$38.79	2.09%	\$39.60	2034
2034	\$39.60	2.09%	\$40.43	2035

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_d.xlsx

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Schedule: 2B. Showing Treating Opioid Use Disorder 2021-2035
2B.3. Residential Treatment

Year	Number in Residential Treatment ¹	Average Cost Per Day of Residential Treatment ¹	Number of Days in Year Required ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	104	\$174.75	365		\$6,631,888	\$6,631,888
2022	110	\$183.26	365	4.875%	\$7,371,670	\$7,347,424
2023	116	\$192.20	365	4.875%	\$8,147,857	\$8,094,346
2024	122	\$201.57	365	4.875%	\$8,960,625	\$8,872,497
2025	127	\$211.39	365	4.875%	\$9,810,152	\$9,681,719
2026	132	\$221.70	365	4.875%	\$10,696,614	\$9,988,146
2027	137	\$232.51	365	4.875%	\$11,620,189	\$10,702,851
2028	141	\$243.84	365	4.875%	\$12,581,058	\$11,430,130
2029	145	\$255.73	365	4.875%	\$13,579,399	\$12,169,206
2030	149	\$268.20	365	4.875%	\$14,615,391	\$12,919,326
2031	153	\$281.27	365	4.875%	\$15,689,217	\$12,425,060
2032	156	\$294.98	365	4.875%	\$16,801,055	\$12,998,808
2033	159	\$309.36	365	4.875%	\$17,951,090	\$13,568,364
2034	162	\$324.45	365	4.875%	\$19,139,502	\$14,138,087
2035	164	\$340.26	365	4.875%	\$20,366,475	\$14,692,374
					\$193,962,181	\$165,655,226

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Outpatient Hospital Services. 2009-2019 Annual Average Percent Change

³ = Number of Individuals in residential treatment x
Average cost per day of intensive outpatient treatment x 365 days per year

2B2. Intensive Outpatient Treatment

CPI					
Medical Care Services					
Year	Cost	Growth	Cost	Year	
2017	\$ 133.62	1.64%	\$135.81	2018	\$4,064.32
2018	\$135.81	2.64%	\$139.40	2019	\$48,771.84
2019	\$139.40	5.09%	\$146.49	2020	\$133.62
2020	\$146.49	3.18%	\$151.15	2021	
2021	\$151.15	3.18%	\$155.96	2022	
2022	\$155.96	3.18%	\$160.92	2023	
2023	\$160.92	3.18%	\$166.04	2024	
2024	\$166.04	3.18%	\$171.32	2025	
2025	\$171.32	3.18%	\$176.77	2026	
2026	\$176.77	3.18%	\$182.39	2027	
2027	\$182.39	3.18%	\$188.19	2028	
2028	\$188.19	3.18%	\$194.18	2029	
2029	\$194.18	3.18%	\$200.35	2030	
2030	\$200.35	3.18%	\$206.73	2031	
2031	\$206.73	3.18%	\$213.30	2032	
2032	\$213.30	3.18%	\$220.09	2033	
2033	\$220.09	3.18%	\$227.09	2034	
2034	\$227.09	3.18%	\$234.31	2035	
2035	\$234.31	3.18%			

Source: Alexander= \$4,064.32/month or \$133.62/day

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Schedule: 3B. Criminal Justice

3B1. Opioid Drug Court

Cost per drug court participant (excluding treatment)					
Year	Number of opioid drug court participants ¹	Annual cost (costs) ¹	growth rate ²	Total Cost ³	Present Value
2021	54	\$9,856		\$535,376	\$535,376
2022	87	\$10,106	2.545%	\$878,402	\$875,513
2023	139	\$10,364	2.545%	\$1,441,212	\$1,431,747
2024	153	\$10,627	2.545%	\$1,625,680	\$1,609,692
2025	168	\$10,898	2.545%	\$1,833,759	\$1,809,752
2026	185	\$11,175	2.545%	\$2,068,471	\$1,931,470
2027	204	\$11,460	2.545%	\$2,333,225	\$2,149,032
2028	224	\$11,751	2.545%	\$2,631,867	\$2,391,101
2029	246	\$12,050	2.545%	\$2,968,732	\$2,660,436
2030	271	\$12,357	2.545%	\$3,348,715	\$2,960,109
2031	298	\$12,671	2.545%	\$3,777,334	\$2,991,456
2032	328	\$12,994	2.545%	\$4,260,814	\$3,296,549
2033	361	\$13,325	2.545%	\$4,806,177	\$3,632,758
2034	397	\$13,664	2.545%	\$5,421,343	\$4,003,255
2035	436	\$14,011	2.545%	\$6,115,248	\$4,411,540
				\$44,046,358	\$36,689,786

Notes and Sources:

¹ *Evaluation of Ohio's Drug Courts: A Cost Benefit Study*, University of Cincinnati, December 2005.² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Legal Services. 2009-2019 Annual Average Percent Change³ = Number of opioid drug court participants × cost per drug court participant

3B1. Opioid Drug Court

Drug Court Cost Per Participant

Year	Cost	Growth	Wage	Year
2003	\$5,777	5.00%	2003 \$	
2004	\$6,086	5.34%		
2005	\$6,291	3.38%		
2006	\$6,572	4.46%		
2007	\$6,762	2.90%		
2008	\$7,068	4.53%		
2009	\$7,290	3.13%		
2010	\$7,526	3.24%		
2011	\$7,729	2.69%		
2012	\$7,872	1.85%		
2013	\$8,084	2.69%	\$8,301.18	2014
2014	\$8,200	1.44%	\$8,317.56	2015
2015	\$8,435	2.86%	\$8,676.22	2016
2016	\$8,780	4.10%	\$9,139.77	2017
2017	\$8,896	1.32%	\$9,013.82	2018
2018	\$9,462	6.36%	\$10,064.36	2019
2019	\$9,372	-0.95%	\$9,283.35	2020
2020	\$9,611	2.55%	\$9,855.51	2021
2021	\$9,856	2.55%	\$10,106.33	2022
2022	\$10,106	2.55%	\$10,363.54	2023
2023	\$10,364	2.55%	\$10,627.29	2024
2024	\$10,627	2.55%	\$10,897.76	2025
2025	\$10,898	2.55%	\$11,175.10	2026
2026	\$11,175	2.55%	\$11,459.51	2027
2027	\$11,460	2.55%	\$11,751.15	2028
2028	\$11,751	2.55%	\$12,050.22	2029
2029	\$12,050	2.55%	\$12,356.90	2030
2030	\$12,357	2.55%	\$12,671.38	2031
2031	\$12,671	2.55%	\$12,993.87	2032
2032	\$12,994	2.55%	\$13,324.56	2033
2033	\$13,325	2.55%	\$13,663.67	2034
2034	\$13,664	2.55%	\$14,011.41	2035
2035	\$14,011	2.55%		

Source: Evaluation of Ohio's Drug Courts: A Cost Benefit Study,
University of Cincinnati, December 2005.

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Schedule: 2B. Showing Treating Opioid Use Disorder 2021-2035

2B2. Intensive Outpatient Treatment

Year	Number in Intensive Outpatient Treatment ¹	Average Cost Per Day of Intensive Outpatient Treatment ¹	Number of Days in Year Required ¹	Annual cost growth rate ²	Total Cost ⁴	Present Value
2021	217	\$151.15	365	3.181%	\$11,998,426	\$11,998,426
2022	231	\$155.96	365	3.181%	\$13,121,418	\$13,078,260
2023	243	\$160.92	365	3.181%	\$14,268,754	\$14,175,044
2024	255	\$166.04	365	3.181%	\$15,438,628	\$15,286,789
2025	266	\$171.32	365	3.181%	\$16,629,296	\$16,411,589
2026	276	\$176.77	365	3.181%	\$17,839,070	\$16,657,537
2027	286	\$182.39	365	3.181%	\$19,066,320	\$17,561,158
2028	296	\$188.19	365	3.181%	\$20,309,470	\$18,451,539
2029	304	\$194.18	365	3.181%	\$21,566,999	\$19,327,311
2030	312	\$200.35	365	3.181%	\$22,837,439	\$20,187,234
2031	320	\$206.73	365	3.181%	\$24,119,370	\$19,101,312
2032	326	\$213.30	365	3.181%	\$25,411,426	\$19,660,564
2033	333	\$220.09	365	3.181%	\$26,712,285	\$20,190,530
2034	338	\$227.09	365	3.181%	\$28,020,677	\$20,691,168
2035	343	\$234.31	365	3.181%	\$29,335,373	\$21,162,537
					\$306,674,952	\$263,940,998

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U),
U.S. City Average -- Outpatient Hospital Services. 2009-2019 Annual Average Percent Change

⁴ = Number of individuals with OUD in intensive outpatient treatment × a
verage cost per day of intensive outpatient treatment × 365 days per year

2B1. Outpatient Treatment

Suggested Average Cost Per Day of Outpatient Treatment
CPI

Medical Care Services				
Year	Cost	Growth	Cost	Year
2016	\$0.00	0.00%	\$100.22	2017
2017	\$100.22	4.84%	\$105.07	2018
2018	\$105.07	4.02%	\$109.29	2019
2019	\$109.29	2.00%	\$111.47	2020
2020	\$111.47	4.15%	\$116.09	2021
2021	\$116.09	4.15%	\$120.90	2022
2022	\$120.90	4.15%	\$125.92	2023
2023	\$125.92	4.15%	\$131.13	2024
2024	\$131.13	4.15%	\$136.57	2025
2025	\$136.57	4.15%	\$142.23	2026
2026	\$142.23	4.15%	\$148.13	2027
2027	\$148.13	4.15%	\$154.27	2028
2028	\$154.27	4.15%	\$160.66	2029
2029	\$160.66	4.15%	\$167.32	2030
2030	\$167.32	4.15%	\$174.26	2031
2031	\$174.26	4.15%	\$181.48	2032
2032	\$181.48	4.15%	\$189.00	2033
2033	\$189.00	4.15%	\$196.84	2034
2034	\$196.84	4.15%	\$204.99	2035
2035	\$204.99			

2017\$
\$3,048 month
\$36,578.88 year
\$100.22 day

Source: Alexander \$3,048/month or \$1022/Day (2017\$)

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Schedule: 3B. Criminal Justice

3B2. Reentry and Reintegration

Year	Number of individuals released from jail/prison with OUD ¹	Cost per reentry ¹	Annual cost growth rate ⁴	Total Cost ⁵	Present Value
2021	189	\$2,701		\$509,472	\$509,472
2022	180	\$2,762	2.275%	\$497,672	\$496,035
2023	172	\$2,825	2.275%	\$486,146	\$482,953
2024	164	\$2,889	2.275%	\$474,886	\$470,216
2025	157	\$2,955	2.275%	\$463,887	\$457,814
2026	150	\$3,022	2.275%	\$453,143	\$423,130
2027	143	\$3,091	2.275%	\$442,648	\$407,704
2028	137	\$3,161	2.275%	\$432,396	\$392,840
2029	131	\$3,233	2.275%	\$422,381	\$378,518
2030	125	\$3,307	2.275%	\$412,599	\$364,718
2031	119	\$3,382	2.275%	\$403,042	\$319,189
2032	114	\$3,459	2.275%	\$393,708	\$304,608
2033	109	\$3,538	2.275%	\$384,589	\$290,692
2034	104	\$3,618	2.275%	\$375,682	\$277,413
2035	99	\$3,700	2.275%	\$366,980	\$264,740
				\$6,519,231	\$5,840,041

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

⁴ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index, All Workers. 2009-2019 Annual Average Percent Change

3B2. Reentry and ReintegrationReentry and Reintegration

Reentry Cost Per Person: \$2,434 in 2017 dollars

Year	Cost	Wage Growth	Wage	Year
2017	\$2,434.00	2.594%	\$2,497.15	2018
2018	\$2,497.15	2.989%	\$2,571.77	2019
2019	\$2,571.77	2.679%	\$2,640.66	2020
2020	\$2,640.66	2.275%	\$2,700.74	2021
2021	\$2,700.74	2.275%	\$2,762.18	2022
2022	\$2,762.18	2.275%	\$2,825.02	2023
2023	\$2,825.02	2.275%	\$2,889.29	2024
2024	\$2,889.29	2.275%	\$2,955.02	2025
2025	\$2,955.02	2.275%	\$3,022.24	2026
2026	\$3,022.24	2.275%	\$3,091.00	2027
2027	\$3,091.00	2.275%	\$3,161.32	2028
2028	\$3,161.32	2.275%	\$3,233.24	2029
2029	\$3,233.24	2.275%	\$3,306.80	2030
2030	\$3,306.80	2.275%	\$3,382.03	2031
2031	\$3,382.03	2.275%	\$3,458.97	2032
2032	\$3,458.97	2.275%	\$3,537.66	2033
2033	\$3,537.66	2.275%	\$3,618.14	2034
2034	\$3,618.14	2.275%	\$3,700.45	2035
2035	\$3,700.45			

Source: Alexander

Schedule: 2B. Showing Treating Opioid Use Disorder 2021-2035

2B1. Outpatient Treatment

Year	Number of OUD in Outpatient Treatment ¹	Average Cost Per Day ¹	Number of Days in Year Required ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	494	\$116.09	365	4.145%	\$20,927,979	\$20,927,979
2022	523	\$120.90	365	4.145%	\$23,100,557	\$23,024,576
2023	552	\$125.92	365	4.145%	\$25,355,164	\$25,188,644
2024	579	\$131.13	365	4.145%	\$27,690,307	\$27,417,973
2025	604	\$136.57	365	4.145%	\$30,104,514	\$29,710,392
2026	628	\$142.23	365	4.145%	\$32,596,327	\$30,437,378
2027	650	\$148.13	365	4.145%	\$35,164,303	\$32,388,311
2028	671	\$154.27	365	4.145%	\$37,807,018	\$34,348,393
2029	691	\$160.66	365	4.145%	\$40,523,062	\$36,314,825
2030	709	\$167.32	365	4.145%	\$43,311,040	\$38,284,945
2031	726	\$174.26	365	4.145%	\$46,169,574	\$36,563,949
2032	741	\$181.48	365	4.145%	\$49,097,302	\$37,986,089
2033	755	\$189.00	365	4.145%	\$52,092,876	\$39,374,496
2034	768	\$196.84	365	4.145%	\$55,154,963	\$40,727,804
2035	779	\$204.99	365	4.145%	\$58,282,246	\$42,044,811
					\$577,377,234	\$494,740,564

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Outpatient Hospital Services. 2009-2019 Annual Average Percent Change³ = Number of individuals with OUD in outpatient treatment × average cost per day of outpatient treatment × 365 days per year

2A5. Bridge Programs - Emergency Departments 2021-2035

Bridge Programs

Annual Cost: \$173,333.00 in 2018 dollars

Year	Cost	ECI State & Local Gov Wage Growth	Wage	Year
2018	\$173,333.00	2.485%	\$177,640.22	2019
2019	\$177,640.22	2.939%	\$182,861.09	2020
2020	\$182,861.09	2.092%	\$186,686.55	2021
2021	\$186,686.55	2.092%	\$190,592.03	2022
2022	\$190,592.03	2.092%	\$194,579.22	2023
2023	\$194,579.22	2.092%	\$198,649.81	2024
2024	\$198,649.81	2.092%	\$202,805.57	2025
2025	\$202,805.57	2.092%	\$207,048.26	2026
2026	\$207,048.26	2.092%	\$211,379.71	2027
2027	\$211,379.71	2.092%	\$215,801.77	2028
2028	\$215,801.77	2.092%	\$220,316.35	2029
2029	\$220,316.35	2.092%	\$224,925.36	2030
2030	\$224,925.36	2.092%	\$229,630.80	2031
2031	\$229,630.80	2.092%	\$234,434.68	2032
2032	\$234,434.68	2.092%	\$239,339.05	2033
2033	\$239,339.05	2.092%	\$244,346.03	2034
2034	\$244,346.03	2.092%	\$249,457.74	2035
2035	\$249,457.74			

Source: California Bridge Program available funding for a Star Site for 12 months. Public Health Institute. http://www.phi.org/wp-content/uploads/migration/uploads/files/CA%20Bridge%20Program_SITE%20SELECTION%20RFA_16Nov2018.pdf.

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Schedule: 3B. Criminal Justice

3B3. Transitional Housing for Newly Released

Year	Post incarceration population with (OUD) needing transitional housing ¹	Cost per person for transitional housing ⁶	Annual cost growth rate ⁷	Total Cost ⁸	Present Value
2021	57	\$10,711		\$606,136	\$606,136
2022	54	\$10,994	2.650%	\$594,269	\$592,314
2023	52	\$11,286	2.650%	\$582,633	\$578,807
2024	49	\$11,585	2.650%	\$571,226	\$565,608
2025	47	\$11,892	2.650%	\$560,042	\$552,710
2026	45	\$12,207	2.650%	\$549,077	\$542,710
2027	43	\$12,530	2.650%	\$538,326	\$495,829
2028	41	\$12,862	2.650%	\$527,786	\$479,504
2029	39	\$13,203	2.650%	\$517,452	\$463,716
2030	37	\$13,553	2.650%	\$507,321	\$448,448
2031	36	\$13,912	2.650%	\$497,388	\$393,906
2032	34	\$14,281	2.650%	\$487,650	\$377,290
2033	33	\$14,659	2.650%	\$478,102	\$361,374
2034	31	\$15,048	2.650%	\$468,741	\$346,130
2035	30	\$15,447	2.650%	\$459,564	\$331,529
				\$7,945,713	\$7,106,011

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁶ Culhane, Metraux et al, Costs associated with Family Homelessness in Columbus Ohio, Housing Policy Debate, Volume 18, Issue 1, May 2007. Average of all stays.⁷ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Rent of Shelter. 2009-2019 Annual Average Percent Change⁸ = Number of individuals released from jail/prison with opioid use disorder needing transitional housing × cost per person for transitional housing

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Transitional Housing for Newly Released									
Monthly Cost: \$1,450.67 in 2006 dollars									
x 12 months = \$7,308.00 Columbus, Ohio									
CPI Rent of Shelter									
Year	Cost	Year	Cost	Year	Cost	Year	Cost	Year	Cost
2007	\$7,308.00	2007	\$7,308.00	2007	\$7,308.00	2007	\$7,308.00	2007	\$7,308.00
2008	\$7,308.00	2008	\$7,308.00	2008	\$7,308.00	2008	\$7,308.00	2008	\$7,308.00
2009	\$7,308.00	2009	\$7,308.00	2009	\$7,308.00	2009	\$7,308.00	2009	\$7,308.00
2010	\$8,092.69	2010	\$8,092.69	2010	\$8,092.69	2010	\$8,092.69	2010	\$8,092.69
2011	\$8,067.39	2011	\$8,067.39	2011	\$8,067.39	2011	\$8,067.39	2011	\$8,067.39
2012	\$8,220.51	2012	\$8,220.51	2012	\$8,220.51	2012	\$8,220.51	2012	\$8,220.51
2013	\$8,400.30	2013	\$8,400.30	2013	\$8,400.30	2013	\$8,400.30	2013	\$8,400.30
2014	\$8,613.49	2014	\$8,613.49	2014	\$8,613.49	2014	\$8,613.49	2014	\$8,613.49
2015	\$8,860.87	2015	\$8,860.87	2015	\$8,860.87	2015	\$8,860.87	2015	\$8,860.87
2016	\$9,147.08	2016	\$9,147.08	2016	\$9,147.08	2016	\$9,147.08	2016	\$9,147.08
2017	\$9,481.50	2017	\$9,481.50	2017	\$9,481.50	2017	\$9,481.50	2017	\$9,481.50
2018	\$9,861.55	2018	\$9,861.55	2018	\$9,861.55	2018	\$9,861.55	2018	\$9,861.55
2019	\$10,021.55	2019	\$10,021.55	2019	\$10,021.55	2019	\$10,021.55	2019	\$10,021.55
2020	\$10,434.03	2020	\$10,434.03	2020	\$10,434.03	2020	\$10,434.03	2020	\$10,434.03
2021	\$10,710.53	2021	\$10,710.53	2021	\$10,710.53	2021	\$10,710.53	2021	\$10,710.53
2022	\$10,994.36	2022	\$10,994.36	2022	\$10,994.36	2022	\$10,994.36	2022	\$10,994.36
2023	\$11,285.71	2023	\$11,285.71	2023	\$11,285.71	2023	\$11,285.71	2023	\$11,285.71
2024	\$11,584.78	2024	\$11,584.78	2024	\$11,584.78	2024	\$11,584.78	2024	\$11,584.78
2025	\$11,891.78	2025	\$11,891.78	2025	\$11,891.78	2025	\$11,891.78	2025	\$11,891.78
2026	\$12,206.91	2026	\$12,206.91	2026	\$12,206.91	2026	\$12,206.91	2026	\$12,206.91
2027	\$12,530.39	2027	\$12,530.39	2027	\$12,530.39	2027	\$12,530.39	2027	\$12,530.39
2028	\$12,862.46	2028	\$12,862.46	2028	\$12,862.46	2028	\$12,862.46	2028	\$12,862.46
2029	\$13,203.30	2029	\$13,203.30	2029	\$13,203.30	2029	\$13,203.30	2029	\$13,203.30
2030	\$13,553.19	2030	\$13,553.19	2030	\$13,553.19	2030	\$13,553.19	2030	\$13,553.19
2031	\$13,912.35	2031	\$13,912.35	2031	\$13,912.35	2031	\$13,912.35	2031	\$13,912.35
2032	\$14,281.02	2032	\$14,281.02	2032	\$14,281.02	2032	\$14,281.02	2032	\$14,281.02
2033	\$14,659.47	2033	\$14,659.47	2033	\$14,659.47	2033	\$14,659.47	2033	\$14,659.47
2034	\$15,047.95	2034	\$15,047.95	2034	\$15,047.95	2034	\$15,047.95	2034	\$15,047.95
2035	\$15,446.72	2035	\$15,446.72	2035	\$15,446.72	2035	\$15,446.72	2035	\$15,446.72

Testing a Typology of Family Homelessness Based on a Pattern of Public Shelter Utilization in Four US Jurisdictions: Implications for Policy and Program Planning .
Culhane, Nereaux, Park, Schretzman and Valente. Housing Policy Debate, Volume 18, Issue 1, May 2007.

Average of all types of stays, extended etc.

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Schedule 2A. Showing Connecting Individuals to Care Bridge Programs
2A5. Bridge Programs - Emergency Departments 2021-2035

Year	Number of Emergency Departments ¹	Bridge program cost per emergency department ¹	Annual Growth rate ²	Total Cost ³	Present Value
2021	3	\$186,687	2.092%	\$560,060	\$560,060
2022	3	\$190,592	2.092%	\$571,776	\$569,895
2023	3	\$194,579	2.092%	\$583,738	\$579,904
2024	3	\$198,650	2.092%	\$595,949	\$590,088
2025	3	\$202,806	2.092%	\$608,417	\$600,451
2026	3	\$207,048	2.092%	\$621,145	\$580,005
2027	3	\$211,380	2.092%	\$634,139	\$584,078
2028	3	\$215,802	2.092%	\$647,405	\$588,180
2029	3	\$220,316	2.092%	\$660,949	\$592,311
2030	3	\$224,925	2.092%	\$674,776	\$596,471
2031	3	\$229,631	2.092%	\$688,892	\$545,568
2032	3	\$234,435	2.092%	\$703,304	\$544,139
2033	3	\$239,339	2.092%	\$718,017	\$542,715
2034	3	\$244,346	2.092%	\$733,038	\$541,294
2035	3	\$249,458	2.092%	\$748,373	\$539,876
				\$9,749,979	\$8,555,034

Notes and Sources:

- ¹ Caleb Alexander, M.D., M.S. Report, see Appendix D
² U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation
All State and Local Government Workers, 2009-2019 Annual Average Percent Change
³ =Number of emergency departments x bridge program cost per emergency room

2A2.1 Peer Coaches for Quick Response Team (QRT)

Median Annual Wage of Peer Recovery Coaches

Hourly Wage: \$9.00
 Annual Hours: 2,080
 Median Annual Wage: \$18,720.00

ECI Health Wkr				
Year	Wage	Growth	Wage	Year
2019	\$18,720.00	1.97%	\$19,088.78	2020
2020	\$19,088.78	1.97%	\$19,464.83	2021
2021	\$19,464.83	1.97%	\$19,848.29	2022
2022	\$19,848.29	1.97%	\$20,239.30	2023
2023	\$20,239.30	1.97%	\$20,638.02	2024
2024	\$20,638.02	1.97%	\$21,044.58	2025
2025	\$21,044.58	1.97%	\$21,459.16	2026
2026	\$21,459.16	1.97%	\$21,881.91	2027
2027	\$21,881.91	1.97%	\$22,312.98	2028
2028	\$22,312.98	1.97%	\$22,752.55	2029
2029	\$22,752.55	1.97%	\$23,200.77	2030
2030	\$23,200.77	1.97%	\$23,657.83	2031
2031	\$23,657.83	1.97%	\$24,123.89	2032
2032	\$24,123.89	1.97%	\$24,599.13	2033
2033	\$24,599.13	1.97%	\$25,083.73	2034
2034	\$25,083.73	1.97%	\$25,577.88	2035
2035	\$25,577.88	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 3C. Vocational Training and Job Placement
3C. Vocational Training Programs Corrected 4-15-2022

Year	Number of individuals with OUD to receive vocational training ¹	Vocational training cost per person ²	Annual cost growth rate ³	Total Estimated Cost ⁴	Present Value
2021	1,067	\$3,056		\$3,261,415	\$3,261,415
2022	1,056	\$3,125	2.28%	\$3,299,659	\$3,288,806
2023	1,043	\$3,196	2.28%	\$3,334,382	\$3,312,484
2024	1,030	\$3,269	2.28%	\$3,365,727	\$3,332,625
2025	1,015	\$3,343	2.28%	\$3,393,831	\$3,349,400
2026	1,000	\$3,419	2.28%	\$3,418,828	\$3,192,389
2027	984	\$3,497	2.28%	\$3,440,846	\$3,169,214
2028	967	\$3,577	2.28%	\$3,460,010	\$3,143,485
2029	950	\$3,658	2.28%	\$3,476,441	\$3,115,420
2030	933	\$3,741	2.28%	\$3,490,255	\$3,085,223
2031	915	\$3,826	2.28%	\$3,501,564	\$2,773,060
2032	897	\$3,913	2.28%	\$3,510,477	\$2,716,021
2033	879	\$4,003	2.28%	\$3,517,099	\$2,658,406
2034	860	\$4,094	2.28%	\$3,521,531	\$2,600,386
2035	842	\$4,187	2.28%	\$3,523,871	\$2,542,120
				\$51,515,937	\$45,540,454

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Caleb Alexander, M.D., M.S. Report, see Appendix D³ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI)

Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change

⁴ = Number of individuals with OUD to receive vocational training x vocational training cost per person

3C. Vocational Training Programs

Vocational Training

Monument Analytics

Vocational Training Cost Per Person: \$2,765 in 2017 dol

2017	\$2,765.00	2.99%	\$2,847.63	2018	130.5
2018	\$2,847.63	2.68%	\$2,923.91	2019	134.4
2019	\$2,923.91	2.23%	\$2,989.04	2020	138.0
2020	\$2,989.04	2.23%	\$3,055.62	2021	
2021	\$3,055.62	2.28%	\$3,125.13	2022	
2022	\$3,125.13	2.28%	\$3,196.23	2023	
2023	\$3,196.23	2.28%	\$3,268.95	2024	
2024	\$3,268.95	2.28%	\$3,343.31	2025	
2025	\$3,343.31	2.28%	\$3,419.37	2026	
2026	\$3,419.37	2.28%	\$3,497.16	2027	
2027	\$3,497.16	2.28%	\$3,576.73	2028	
2028	\$3,576.73	2.28%	\$3,658.10	2029	
2029	\$3,658.10	2.28%	\$3,741.32	2030	
2030	\$3,741.32	2.28%	\$3,826.43	2031	
2031	\$3,826.43	2.28%	\$3,913.48	2032	
2032	\$3,913.48	2.28%	\$4,002.52	2033	
2033	\$4,002.52	2.28%	\$4,093.57	2034	
2034	\$4,093.57	2.28%	\$4,186.70	2035	
2035	\$4,186.70	2.28%			

Source: Alexander

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Schedule 2A. Showing Connecting Individuals to Care Quick response Team

2A2.1 Peer Coaches for Quick Response Team (QRT)

Year	Number of Peer Coaches ¹	Median Wage of Peer Coaches ¹⁰	Employer Paid Fringe Benefits ¹¹	Total Compensation ¹²	Annual cost growth rate ⁵	Total Cost ¹³	Present Value
2021	0.5	\$19,465	26.74%	\$24,670		\$11,321	\$11,321
2022	0.4	\$19,848	26.74%	\$25,156	1.97%	\$11,025	\$10,989
2023	0.4	\$20,239	26.74%	\$25,651	1.97%	\$10,738	\$10,667
2024	0.4	\$20,638	26.74%	\$26,157	1.97%	\$10,458	\$10,355
2025	0.4	\$21,045	26.74%	\$26,672	1.97%	\$10,185	\$10,052
2026	0.4	\$21,459	26.74%	\$27,197	1.97%	\$9,920	\$9,763
2027	0.3	\$21,882	26.74%	\$27,733	1.97%	\$9,661	\$8,898
2028	0.3	\$22,313	26.74%	\$28,279	1.97%	\$9,409	\$8,548
2029	0.3	\$22,753	26.74%	\$28,837	1.97%	\$9,164	\$8,212
2030	0.3	\$23,201	26.74%	\$29,405	1.97%	\$8,925	\$7,889
2031	0.3	\$23,658	26.74%	\$29,984	1.97%	\$8,692	\$6,884
2032	0.3	\$24,124	26.74%	\$30,575	1.97%	\$8,466	\$6,550
2033	0.3	\$24,599	26.74%	\$31,177	1.97%	\$8,245	\$6,232
2034	0.3	\$25,084	26.74%	\$31,791	1.97%	\$8,030	\$5,929
2035	0.2	\$25,578	26.74%	\$32,417	1.97%	\$7,820	\$5,642
						\$142,059	\$127,431

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁵ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private Industry workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change¹⁰ Assumed \$9.00 per hour.¹¹ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private Industry Workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change¹² = Median annual wage of peer coach + employer provided fringe benefit percentage of wages¹³ = Total number of peer coaches x total annual compensation of peer coaches

2A4.2. First Responder for Quick Response Team (QRT)

Median Annual Wage of Emergency Medical Technicians and Paramedics (SOC 29-2040)

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$12.56	cle	yng
Annual Hours:	2,080	18.94	12.56
Median Annual Wage:	\$26,124.80		

Year	Wage	Growth	Wage	Year
2019	\$26,124.80	2.94%	\$26,892.61	2020
2020	\$26,892.61	2.09%	\$27,455.21	2021
2021	\$27,455.21	2.09%	\$28,029.57	2022
2022	\$28,029.57	2.09%	\$28,615.95	2023
2023	\$28,615.95	2.09%	\$29,214.59	2024
2024	\$29,214.59	2.09%	\$29,825.76	2025
2025	\$29,825.76	2.09%	\$30,449.72	2026
2026	\$30,449.72	2.09%	\$31,086.72	2027
2027	\$31,086.72	2.09%	\$31,737.06	2028
2028	\$31,737.06	2.09%	\$32,401.00	2029
2029	\$32,401.00	2.09%	\$33,078.83	2030
2030	\$33,078.83	2.09%	\$33,770.84	2031
2031	\$33,770.84	2.09%	\$34,477.32	2032
2032	\$34,477.32	2.09%	\$35,198.59	2033
2033	\$35,198.59	2.09%	\$35,934.94	2034
2034	\$35,934.94	2.09%	\$36,686.70	2035
2035	\$36,686.70			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 3D. Mental Health Counseling and Grief Support

3D. Mental Health Counselors

Year	Number of Counselors needed to deliver mental health and grief support ¹	Median annual wage of Mental Health Counselor ²	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	6.4	\$48,359	26.74%	\$61,291		\$389,349	\$389,349
2022	6.3	\$49,312	26.74%	\$62,498	1.97%	\$396,710	\$395,406
2023	6.3	\$50,283	26.74%	\$63,729	1.97%	\$404,225	\$401,570
2024	6.3	\$51,274	26.74%	\$64,985	1.97%	\$411,895	\$407,844
2025	6.3	\$52,284	26.74%	\$66,265	1.97%	\$419,725	\$414,230
2026	6.3	\$53,314	26.74%	\$67,570	1.97%	\$427,715	\$399,387
2027	6.3	\$54,364	26.74%	\$68,901	1.97%	\$435,871	\$401,462
2028	6.3	\$55,435	26.74%	\$70,259	1.97%	\$444,194	\$403,559
2029	6.3	\$56,527	26.74%	\$71,643	1.97%	\$452,688	\$405,677
2030	6.3	\$57,641	26.74%	\$73,054	1.97%	\$461,356	\$407,818
2031	6.3	\$58,777	26.74%	\$74,493	1.97%	\$470,202	\$372,376
2032	6.3	\$59,934	26.74%	\$75,961	1.97%	\$479,228	\$370,774
2033	6.3	\$61,115	26.74%	\$77,457	1.97%	\$488,438	\$369,186
2034	6.3	\$62,319	26.74%	\$78,983	1.97%	\$497,835	\$367,614
2035	6.3	\$63,547	26.74%	\$80,539	1.97%	\$507,423	\$366,055
						\$6,686,855	\$5,872,306

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG-OH Metropolitan Statistical Areas. May 2019 (Substance Abuse, Behavioral Disorder, and Mental Health Counselors SOC: 21-1018)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual wage of mental health counselor + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, Health and Social Assistance Workers, 2009-2019 Annual Average Percent Change.⁶ Total number of counselors needed to deliver mental health and grief support

x total annual compensation of mental health counselors

3D. Mental Health Counselors
CLE-Youngstown MSA May 2019

Median Hourly Wage: \$22.36 cle yng 22.36 20.17
Annual Hours: 2,080
Median Annual Wage: \$46,508.80

ECI Health
& Social
Assistance

Year	Wage	Growth	Wage	Year
2019	\$46,508.80	1.97%	\$47,425.02	2020
2020	\$47,425.02	1.97%	\$48,359.30	2021
2021	\$48,359.30	1.97%	\$49,311.97	2022
2022	\$49,311.97	1.97%	\$50,283.42	2023
2023	\$50,283.42	1.97%	\$51,274.00	2024
2024	\$51,274.00	1.97%	\$52,284.10	2025
2025	\$52,284.10	1.97%	\$53,314.10	2026
2026	\$53,314.10	1.97%	\$54,364.39	2027
2027	\$54,364.39	1.97%	\$55,435.36	2028
2028	\$55,435.36	1.97%	\$56,527.44	2029
2029	\$56,527.44	1.97%	\$57,641.03	2030
2030	\$57,641.03	1.97%	\$58,776.56	2031
2031	\$58,776.56	1.97%	\$59,934.46	2032
2032	\$59,934.46	1.97%	\$61,115.17	2033
2033	\$61,115.17	1.97%	\$62,319.14	2034
2034	\$62,319.14	1.97%	\$63,546.82	2035
2035	\$63,546.82	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule 2A. Showing Connecting Individuals to Care Quick response Team
2A4.2. First Responder for Quick Response Team (QRT)

Year	Number of First Responders ¹	Median Wage of ⁷	Employer Paid Fringe Benefits ³	Total Compensation ⁸	Annual cost growth rate ⁵	Total Cost ⁹	Present Value
2021	0.5	\$27,455	26.74%	\$34,797		\$15,968	\$15,968
2022	0.4	\$28,030	26.74%	\$35,525	2.09%	\$15,570	\$15,519
2023	0.4	\$28,616	26.74%	\$36,268	2.09%	\$15,182	\$15,082
2024	0.4	\$29,215	26.74%	\$37,027	2.09%	\$14,804	\$14,658
2025	0.4	\$29,826	26.74%	\$37,801	2.09%	\$14,435	\$14,246
2026	0.4	\$30,450	26.74%	\$38,592	2.09%	\$14,076	\$13,143
2027	0.3	\$31,087	26.74%	\$39,399	2.09%	\$13,725	\$12,642
2028	0.3	\$31,737	26.74%	\$40,224	2.09%	\$13,383	\$12,159
2029	0.3	\$32,401	26.74%	\$41,065	2.09%	\$13,050	\$11,695
2030	0.3	\$33,079	26.74%	\$41,924	2.09%	\$12,725	\$11,248
2031	0.3	\$33,771	26.74%	\$42,801	2.09%	\$12,408	\$9,826
2032	0.3	\$34,477	26.74%	\$43,697	2.09%	\$12,099	\$9,361
2033	0.3	\$35,199	26.74%	\$44,611	2.09%	\$11,797	\$8,917
2034	0.3	\$35,935	26.74%	\$45,544	2.09%	\$11,504	\$8,494
2035	0.2	\$36,687	26.74%	\$46,497	2.09%	\$11,217	\$8,092
						\$201,942	\$181,051

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of
Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019
economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. ECI, Total Compensation Private Industry workers
State and Local Government Workers, 2009-2019 Annual Average Percent Change

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics:
CLE & YNG, OH Metropolitan Statistical Area. May 2019 (Emergency Medical Technicians and Paramedics SOC: 29-2040)

⁸ = Median annual wage of first responder + employer provided fringe benefit percentage of wages

⁹ = Total number of first responders x total annual compensation of first responders

Median Annual Wage of Substance Abuse, Behavioral Disorder, and Mental Health Counselors (SOC 21-1018)
CLE-Youngstown MSA May 2019

Median Hourly Wage: \$20.17
Annual Hours: 2,080
Median Annual Wage: \$41,953.60

cle yng
22.36 20.17

ECI Health & Social Assistance				
Year	Wage	Growth	Wage	Year
2019	\$41,953.60	1.97%	\$42,780.09	2020
2020	\$42,780.09	1.97%	\$43,622.85	2021
2021	\$43,622.85	1.97%	\$44,482.22	2022
2022	\$44,482.22	1.97%	\$45,358.52	2023
2023	\$45,358.52	1.97%	\$46,252.09	2024
2024	\$46,252.09	1.97%	\$47,163.25	2025
2025	\$47,163.25	1.97%	\$48,092.37	2026
2026	\$48,092.37	1.97%	\$49,039.79	2027
2027	\$49,039.79	1.97%	\$50,005.87	2028
2028	\$50,005.87	1.97%	\$50,990.99	2029
2029	\$50,990.99	1.97%	\$51,995.51	2030
2030	\$51,995.51	1.97%	\$53,019.82	2031
2031	\$53,019.82	1.97%	\$54,064.31	2032
2032	\$54,064.31	1.97%	\$55,129.38	2033
2033	\$55,129.38	1.97%	\$56,215.43	2034
2034	\$56,215.43	1.97%	\$57,322.87	2035
2035	\$57,322.87	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_d1.xlsX

Lake Exhibit 1-4

Category 4: Addressing Needs-
of
Special Populations

- 4A. Pregnant Women, New Mothers, and Infants
- 4B. Adolescents and Young Adults
- 4C. Families and Children
- 4D. Homeless and Housing Insecure Individuals

Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A1. Prenatal OUD Screening

Year	Number of pregnant women for prenatal screening ¹	Prenatal screening cost per woman ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	2,192	\$71.83		\$157,450	\$157,450
2022	2,192	\$74.11	3.18%	\$162,459	\$161,925
2023	2,192	\$76.47	3.18%	\$167,627	\$166,526
2024	2,192	\$78.90	3.18%	\$172,959	\$171,258
2025	2,192	\$81.41	3.18%	\$178,461	\$176,124
2026	2,192	\$84.00	3.18%	\$184,138	\$171,942
2027	2,192	\$86.68	3.18%	\$189,995	\$174,996
2028	2,192	\$89.43	3.18%	\$196,039	\$178,105
2029	2,192	\$92.28	3.18%	\$202,275	\$181,269
2030	2,192	\$95.21	3.18%	\$208,709	\$184,489
2031	2,192	\$98.24	3.18%	\$215,348	\$170,545
2032	2,192	\$101.37	3.18%	\$222,198	\$171,913
2033	2,192	\$104.59	3.18%	\$229,267	\$173,292
2034	2,192	\$107.92	3.18%	\$236,560	\$174,681
2035	2,192	\$111.35	3.18%	\$244,084	\$176,083
				\$2,967,569	\$2,590,597

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U),

-- U.S. City Average Medical Care Services. 2009-2019 Annual Average Percent Change

³ = Number of pregnant women for prenatal screening x prenatal screening cost per woman

Schedule 2A. Showing Connecting Individuals to Care Quick response Team

2A4.1. Quick Response Team (QRT) Additions Counselor

Year	Number of Additions Counselors ¹	Median Wage ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.5	\$43,623	26.74%	\$55,288		\$25,371	\$25,371
2022	0.4	\$44,482	26.74%	\$56,377	1.97%	\$24,709	\$24,628
2023	0.4	\$45,359	26.74%	\$57,487	1.97%	\$24,065	\$23,907
2024	0.4	\$46,252	26.74%	\$58,620	1.97%	\$23,437	\$23,207
2025	0.4	\$47,163	26.74%	\$59,775	1.97%	\$22,826	\$22,527
2026	0.4	\$48,092	26.74%	\$60,952	1.97%	\$22,231	\$20,759
2027	0.3	\$49,040	26.74%	\$62,153	1.97%	\$21,651	\$19,942
2028	0.3	\$50,006	26.74%	\$63,377	1.97%	\$21,087	\$19,158
2029	0.3	\$50,991	26.74%	\$64,626	1.97%	\$20,537	\$18,404
2030	0.3	\$51,996	26.74%	\$65,899	1.97%	\$20,002	\$17,681
2031	0.3	\$53,020	26.74%	\$67,197	1.97%	\$19,480	\$15,427
2032	0.3	\$54,064	26.74%	\$68,521	1.97%	\$18,972	\$14,679
2033	0.3	\$55,129	26.74%	\$69,871	1.97%	\$18,478	\$13,966
2034	0.3	\$56,215	26.74%	\$71,247	1.97%	\$17,996	\$13,289
2035	0.2	\$57,323	26.74%	\$72,651	1.97%	\$17,527	\$12,644
						\$318,369	\$285,588

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG OH, Metropolitan Statistical Area. May 2019 (Substance Abuse, Behavioral Disorder, and Mental Health Counselors SOC: 21-1018)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ Median annual wage of additions counselor + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private Industry workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change⁶ = Total number of additions counselor x total annual compensation of additions counselors

2A3. Transportation Assistance

Laketran and Trumbell County Bus Fares

Bus Fares

Round trip @ \$1.75

		CPI Pub			
		Transp			
Year	Fare	Growth	Fare	Year	
2020	\$3.50	0.23%	\$3.51	2021	
2021	\$3.51	0.23%	\$3.52	2022	
2022	\$3.52	0.23%	\$3.52	2023	
2023	\$3.52	0.23%	\$3.53	2024	
2024	\$3.53	0.23%	\$3.54	2025	
2025	\$3.54	0.23%	\$3.55	2026	
2026	\$3.55	0.23%	\$3.56	2027	
2027	\$3.56	0.23%	\$3.56	2028	
2028	\$3.56	0.23%	\$3.57	2029	
2029	\$3.57	0.23%	\$3.58	2030	
2030	\$3.58	0.23%	\$3.59	2031	
2031	\$3.59	0.23%	\$3.60	2032	
2032	\$3.60	0.23%	\$3.61	2033	
2033	\$3.61	0.23%	\$3.61	2034	
2034	\$3.61	0.23%	\$3.62	2035	
2035	\$3.62				

Source: LakeTran Public Transportation (Lake County Ohio)
& Trumbell County Ohio Public Transportation

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4A1. Prenatal OUD Screening

Prenatal OUD Screening

Monument Analytics

Total Testing Costs \$63.50 2017\$

		Medical Care Services			
Year	Cost	Growth	Wage	Year	
2017	\$63.50	1.64%	\$64.54	2018	
2018	\$64.54	2.64%	\$66.25	2019	
2019	\$66.25	5.09%	\$69.62	2020	
2020	\$69.62	3.18%	\$71.83	2021	
2021	\$71.83	3.18%	\$74.11	2022	
2022	\$74.11	3.18%	\$76.47	2023	
2023	\$76.47	3.18%	\$78.90	2024	
2024	\$78.90	3.18%	\$81.41	2025	
2025	\$81.41	3.18%	\$84.00	2026	
2026	\$84.00	3.18%	\$86.68	2027	
2027	\$86.68	3.18%	\$89.43	2028	
2028	\$89.43	3.18%	\$92.28	2029	
2029	\$92.28	3.18%	\$95.21	2030	
2030	\$95.21	3.18%	\$98.24	2031	
2031	\$98.24	3.18%	\$101.37	2032	
2032	\$101.37	3.18%	\$104.59	2033	
2033	\$104.59	3.18%	\$107.92	2034	
2034	\$107.92	3.18%	\$111.35	2035	
2035	\$111.35	3.18%	\$114.89	2036	

Source: Alexander

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Schedule: 4A. Pregnant Women, New Mothers, and Infants
4A2a. Prenatal Psychosocial Services

Year	Number of pregnant women with OUD / new mothers with OUD to receive prenatal psychosocial services ¹	Prenatal psychosocial services cost per woman ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	32	\$3,022		\$95,474	\$95,474
2022	30	\$3,112	2.99%	\$93,917	\$93,608
2023	29	\$3,205	2.99%	\$92,386	\$91,779
2024	28	\$3,301	2.99%	\$90,880	\$89,986
2025	26	\$3,400	2.99%	\$89,398	\$88,228
2026	25	\$3,502	2.99%	\$87,941	\$82,116
2027	24	\$3,607	2.99%	\$86,507	\$79,678
2028	23	\$3,715	2.99%	\$85,097	\$77,312
2029	22	\$3,826	2.99%	\$83,709	\$75,016
2030	21	\$3,940	2.99%	\$82,345	\$72,789
2031	20	\$4,058	2.99%	\$81,002	\$64,150
2032	19	\$4,180	2.99%	\$79,682	\$61,649
2033	18	\$4,305	2.99%	\$78,383	\$59,246
2034	17	\$4,434	2.99%	\$77,105	\$56,936
2035	17	\$4,566	2.99%	\$75,848	\$54,717
				\$1,279,674	\$1,142,685

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ = Nancy Young, Ph.D. Report, p 8.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Total Medical Care. 2009-2019 Annual Average Percent Change⁶ Number of pregnant women with OUD new mothers with OUD to receive prenatal psychosocial services × prenatal psychosocial services cost per woman

Schi 2A. Showing Connecting Individuals to Care 2021-2035

2A3. Transportation Assistance

Year	Total transportation vouchers needed ¹	Bus Fare ¹⁰	Annual cost growth rate ¹¹	Total Cost ¹²	Present Value
2021	70,919	\$3.51		\$248,789	\$248,789
2022	75,166	\$3.52	0.23%	\$264,293	\$263,423
2023	79,219	\$3.52	0.23%	\$279,182	\$277,349
2024	83,071	\$3.53	0.23%	\$293,433	\$290,547
2025	86,719	\$3.54	0.23%	\$307,024	\$303,004
2026	90,160	\$3.55	0.23%	\$319,940	\$298,749
2027	93,392	\$3.56	0.23%	\$332,170	\$305,948
2028	96,414	\$3.56	0.23%	\$343,709	\$312,266
2029	99,228	\$3.57	0.23%	\$354,552	\$317,732
2030	101,833	\$3.58	0.23%	\$364,700	\$322,378
2031	104,234	\$3.59	0.23%	\$374,155	\$296,312
2032	106,432	\$3.60	0.23%	\$382,925	\$296,265
2033	108,431	\$3.61	0.23%	\$391,015	\$295,549
2034	110,236	\$3.61	0.23%	\$398,436	\$294,215
2035	111,850	\$3.62	0.23%	\$405,200	\$292,311
				\$5,059,522	\$4,414,838

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D¹⁰ LakeTran Public Transportation (Lake County Ohio) & Trumbull County Ohio Public Transportation.¹¹ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Public Transportation. 2009-2019 Annual Average Percent Change¹² = Total annual number needing transportation × bus fare for a round trip.
economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

2A2. Peer Recovery Coaches

Median Annual Wage of Peer Recovery Coaches

Hourly Wage: \$9.00
 Annual Hours: 2,080
 Median Annual Wage: \$18,720.00

ECI Health Wkr				
Year	Wage	Growth	Wage	Year
2019	\$18,720.00	1.97%	\$19,088.78	2020
2020	\$19,088.78	1.97%	\$19,464.83	2021
2021	\$19,464.83	1.97%	\$19,848.29	2022
2022	\$19,848.29	1.97%	\$20,239.30	2023
2023	\$20,239.30	1.97%	\$20,638.02	2024
2024	\$20,638.02	1.97%	\$21,044.58	2025
2025	\$21,044.58	1.97%	\$21,459.16	2026
2026	\$21,459.16	1.97%	\$21,881.91	2027
2027	\$21,881.91	1.97%	\$22,312.98	2028
2028	\$22,312.98	1.97%	\$22,752.55	2029
2029	\$22,752.55	1.97%	\$23,200.77	2030
2030	\$23,200.77	1.97%	\$23,657.83	2031
2031	\$23,657.83	1.97%	\$24,123.89	2032
2032	\$24,123.89	1.97%	\$24,599.13	2033
2033	\$24,599.13	1.97%	\$25,083.73	2034
2034	\$25,083.73	1.97%	\$25,577.88	2035
2035	\$25,577.88	1.97%		

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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4A2a. Prenatal Psychosocial Services

Prenatal Psychosocial Services for Mothers

Total Med Care				
Year	Cost	Growth	Cost	Year
2020	\$2,934.00	2.99%	\$3,021.81	2021
2021	\$3,021.81	2.99%	\$3,112.26	2022
2022	\$3,112.26	2.99%	\$3,205.41	2023
2023	\$3,205.41	2.99%	\$3,301.35	2024
2024	\$3,301.35	2.99%	\$3,400.15	2025
2025	\$3,400.15	2.99%	\$3,501.92	2026
2026	\$3,501.92	2.99%	\$3,606.73	2027
2027	\$3,606.73	2.99%	\$3,714.68	2028
2028	\$3,714.68	2.99%	\$3,825.86	2029
2029	\$3,825.86	2.99%	\$3,940.37	2030
2030	\$3,940.37	2.99%	\$4,058.31	2031
2031	\$4,058.31	2.99%	\$4,179.77	2032
2032	\$4,179.77	2.99%	\$4,304.87	2033
2033	\$4,304.87	2.99%	\$4,433.72	2034
2034	\$4,433.72	2.99%	\$4,566.42	2035
2035	\$4,566.42	2.99%		

Source: Nancy Young from her sources page 8.

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Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A2b. Postpartum Psychosocial Services

Year	Number of new mothers with OUD to receive postpartum psychosocial services ¹	Postpartum psychosocial services cost per woman ⁴	Annual cost growth rate ⁵	Total Cost ⁷	Present Value
2021	0	\$8,997		\$0	\$0
2022	32	\$9,267	2.99%	\$292,782	\$291,819
2023	62	\$9,544	2.99%	\$589,554	\$585,682
2024	91	\$9,830	2.99%	\$890,513	\$881,755
2025	118	\$10,124	2.99%	\$1,195,861	\$1,180,205
2026	144	\$10,427	2.99%	\$1,505,804	\$1,406,070
2027	138	\$10,739	2.99%	\$1,481,255	\$1,364,319
2028	132	\$11,060	2.99%	\$1,457,105	\$1,323,808
2029	126	\$11,392	2.99%	\$1,433,350	\$1,284,500
2030	120	\$11,732	2.99%	\$1,409,982	\$1,246,358
2031	115	\$12,084	2.99%	\$1,386,995	\$1,098,429
2032	110	\$12,445	2.99%	\$1,364,382	\$1,055,609
2033	105	\$12,818	2.99%	\$1,342,138	\$1,014,458
2034	100	\$13,201	2.99%	\$1,320,257	\$974,911
2035	96	\$13,597	2.99%	\$1,298,733	\$936,906
				\$16,968,712	\$14,644,829

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ = Nancy Young, Ph.D. Report, p 8.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Total Medical Care. 2009-2019 Annual Average Percent Change⁷ = Number of new mothers with OUD to receive postpartum psychosocial services x postpartum psychosocial services cost per woman

Schi 2A. Showing Connecting Individuals to Care 2021-2035

2A2. Peer Recovery Coaches

Year	Number of Peer Recovery Coaches ¹	Median annual wage of Peer Coach ⁷	Employer Paid Fringe Benefits ³	Total Compensation ⁸	Annual Growth rate ⁵	Total Cost ⁹	Present Value
2021	16	\$19,465	26.74%	\$24,670	1.97%	\$382,381	\$382,381
2022	16	\$19,848	26.74%	\$25,156	1.97%	\$389,914	\$388,631
2023	16	\$20,239	26.74%	\$25,651	1.97%	\$397,595	\$394,984
2024	16	\$20,638	26.74%	\$26,157	1.97%	\$405,428	\$401,440
2025	16	\$21,045	26.74%	\$26,672	1.97%	\$413,415	\$408,002
2026	16	\$21,459	26.74%	\$27,197	1.97%	\$421,559	\$393,638
2027	16	\$21,882	26.74%	\$27,733	1.97%	\$429,864	\$395,929
2028	16	\$22,313	26.74%	\$28,279	1.97%	\$438,332	\$398,233
2029	16	\$22,753	26.74%	\$28,837	1.97%	\$446,967	\$400,550
2030	16	\$23,201	26.74%	\$29,405	1.97%	\$455,772	\$402,881
2031	16	\$23,658	26.74%	\$29,984	1.97%	\$464,751	\$368,059
2032	16	\$24,124	26.74%	\$30,575	1.97%	\$473,907	\$366,657
2033	16	\$24,599	26.74%	\$31,177	1.97%	\$483,242	\$365,260
2034	16	\$25,084	26.74%	\$31,791	1.97%	\$492,762	\$363,868
2035	16	\$25,578	26.74%	\$32,417	1.97%	\$502,470	\$362,482
						\$6,598,357	\$5,792,995

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private, Industry Workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change⁴ = Median annual licensed clinical social worker wage + employer provided fringe benefit percentage of wages⁷ Assumed \$9.00 per hour.⁸ Median annual wage of peer recovery coach + employer provided fringe benefit percentage of wages⁹ = Total number of peer recovery coaches x total annual compensation of peer recovery coaches

2A1. Helpline
Substance Abuse Social Worker

Median Annual Wage of Licensed Clinical Social Worker-Level Staff
Median Annual Wage of Mental Health and Substance Abuse Social Workers (SOC 21-1023)
CLE MSA & YNG MSA, May 2019

Median Hourly Wage: \$18.35
Annual Hours: 2,080
Median Annual Wage: \$38,168.00

ECI Prof Wkrs

Year	Wage	Growth	Wage	Year
2019	\$38,168.00	1.97%	\$38,919.91	2020
2020	\$38,919.91	1.97%	\$39,686.63	2021
2021	\$39,686.63	1.97%	\$40,468.46	2022
2022	\$40,468.46	1.97%	\$41,265.69	2023
2023	\$41,265.69	1.97%	\$42,078.62	2024
2024	\$42,078.62	1.97%	\$42,907.57	2025
2025	\$42,907.57	1.97%	\$43,752.85	2026
2026	\$43,752.85	1.97%	\$44,614.78	2027
2027	\$44,614.78	1.97%	\$45,493.69	2028
2028	\$45,493.69	1.97%	\$46,389.92	2029
2029	\$46,389.92	1.97%	\$47,303.80	2030
2030	\$47,303.80	1.97%	\$48,235.68	2031
2031	\$48,235.68	1.97%	\$49,185.93	2032
2032	\$49,185.93	1.97%	\$50,154.89	2033
2033	\$50,154.89	1.97%	\$51,142.94	2034
2034	\$51,142.94	1.97%	\$52,150.46	2035
2035	\$52,150.46	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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4A2b. Postpartum Psychosocial Services

Postpartum Psychosocial Services for Mothers

Total Med Care

Year	Cost	Growth	Cost	Year
2020	\$8,736.00	2.99%	\$8,997.47	2021
2021	\$8,997.47	2.99%	\$9,266.76	2022
2022	\$9,266.76	2.99%	\$9,544.12	2023
2023	\$9,544.12	2.99%	\$9,829.77	2024
2024	\$9,829.77	2.99%	\$10,123.98	2025
2025	\$10,123.98	2.99%	\$10,426.99	2026
2026	\$10,426.99	2.99%	\$10,739.07	2027
2027	\$10,739.07	2.99%	\$11,060.49	2028
2028	\$11,060.49	2.99%	\$11,391.53	2029
2029	\$11,391.53	2.99%	\$11,732.48	2030
2030	\$11,732.48	2.99%	\$12,083.63	2031
2031	\$12,083.63	2.99%	\$12,445.29	2032
2032	\$12,445.29	2.99%	\$12,817.78	2033
2033	\$12,817.78	2.99%	\$13,201.42	2034
2034	\$13,201.42	2.99%	\$13,596.54	2035
2035	\$13,596.54	2.99%		

Source: Nancy Young from her sources page 8.

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Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A3. Prenatal and Postpartum Housing Services

Year	Number of new mothers with OUD to receive housing services ¹	Housing services cost per mother ²	Annual cost growth rate ³	Total Cost ¹⁰	Present Value
2021	13	\$10,711		\$135,359	\$135,359
2022	12	\$10,994	2.65%	\$132,709	\$132,272
2023	12	\$11,286	2.65%	\$130,111	\$129,256
2024	11	\$11,585	2.65%	\$127,563	\$126,309
2025	11	\$11,892	2.65%	\$125,066	\$123,428
2026	10	\$12,207	2.65%	\$122,617	\$114,496
2027	10	\$12,530	2.65%	\$120,216	\$110,726
2028	9	\$12,862	2.65%	\$117,862	\$107,080
2029	9	\$13,203	2.65%	\$115,555	\$103,555
2030	8	\$13,553	2.65%	\$113,292	\$100,145
2031	8	\$13,912	2.65%	\$111,074	\$87,965
2032	8	\$14,281	2.65%	\$108,899	\$84,254
2033	7	\$14,659	2.65%	\$106,767	\$80,700
2034	7	\$15,048	2.65%	\$104,677	\$77,296
2035	7	\$15,447	2.65%	\$102,627	\$74,035
				\$1,774,394	\$1,586,877

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Culhane, Metraux et al, Costs associated with Family Homelessness

in Columbus Ohio, Housing Policy Debate, Volume 18, Issue 1, May 2007

³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (Rent of Shelter) 2009-2019 Annual Average Percent Change¹⁰ = Number of new mothers with OUD to receive housing services x housing services cost per mother

Sch 2A. Showing Connecting Individuals to Care 2021-2035

2A1. Helpline

Year	Number of helpline staff members ¹	Crisis Intervention Specialist median wage ²	Employer Paid Fringe Benefits ³	Total Compensation ⁴	Cost growth rate ⁵	Total Cost ⁶	Present Value
2021	3	\$39,687	26.74%	\$50,299		\$150,897	\$150,897
2022	3	\$40,468	26.74%	\$51,290	1.97%	\$153,869	\$153,363
2023	3	\$41,266	26.74%	\$52,300	1.97%	\$156,900	\$155,870
2024	3	\$42,079	26.74%	\$53,330	1.97%	\$159,991	\$158,418
2025	3	\$42,908	26.74%	\$54,381	1.97%	\$163,143	\$161,007
2026	3	\$43,753	26.74%	\$55,452	1.97%	\$166,357	\$155,339
2027	3	\$44,615	26.74%	\$56,545	1.97%	\$169,634	\$156,243
2028	3	\$45,494	26.74%	\$57,659	1.97%	\$172,976	\$157,152
2029	3	\$46,390	26.74%	\$58,795	1.97%	\$176,384	\$158,067
2030	3	\$47,304	26.74%	\$59,953	1.97%	\$179,859	\$158,987
2031	3	\$48,236	26.74%	\$61,134	1.97%	\$183,402	\$145,245
2032	3	\$49,186	26.74%	\$62,338	1.97%	\$187,015	\$144,691
2033	3	\$50,155	26.74%	\$63,566	1.97%	\$190,699	\$144,140
2034	3	\$51,143	26.74%	\$64,819	1.97%	\$194,456	\$143,591
2035	3	\$52,150	26.74%	\$66,095	1.97%	\$198,286	\$143,044
						\$2,603,868	\$2,286,053

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Mental Health and Substance Abuse Social Workers SOC: 21-1023)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ = Median annual licensed clinical social worker wage + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Total Compensation Private, Industry Workers in Health and Social Assistance, 2009-2019 Annual Average Percent Change⁶ = Total number of helpline staff members x total annual compensation of helpline staff members

4A3. Prenatal and Postpartum Housing Services

Monthly Cost:		\$1,430.67	In 2006 dollars
x 12 months =		\$7,208.00	Columbus, Ohio
CPI Rent of Shelter			
Year	Cost	Growth	Year
2006	\$7,308.00	4.26%	2007
2007	\$7,618.96	3.13%	2008
2008	\$7,857.43	1.94%	2009
2009	\$8,009.78	0.29%	2010
2010	\$8,032.69	0.43%	2011
2011	\$8,067.39	1.90%	2012
2012	\$8,220.51	2.19%	2013
2013	\$8,400.30	2.54%	2014
2014	\$8,613.49	2.57%	2015
2015	\$8,860.87	3.23%	2016
2016	\$9,147.08	3.66%	2017
2017	\$9,481.50	3.73%	2018
2018	\$9,787.75	3.22%	2019
2019	\$10,102.55	3.28%	2020
2020	\$10,494.03	2.65%	2021
2021	\$10,710.53	2.65%	2022
2022	\$10,994.36	2.65%	2023
2023	\$11,285.71	2.65%	2024
2024	\$11,584.78	2.65%	2025
2025	\$11,891.78	2.65%	2026
2026	\$12,206.91	2.65%	2027
2027	\$12,530.39	2.65%	2028
2028	\$12,862.45	2.65%	2029
2029	\$13,203.30	2.65%	2030
2030	\$13,553.19	2.65%	2031
2031	\$13,912.35	2.65%	2032
2032	\$14,281.02	2.65%	2033
2033	\$14,659.47	2.65%	2034
2034	\$15,047.95	2.65%	2035
2035	\$15,446.72	2.65%	

Testing a Typology of Family Homelessness Based on a Pattern of Public Shelter Utilization in Four US Jurisdictions: Implications for Policy and Program Planning .
Culhane, Metraux, Park, Schetzman and Valente, Housing Policy Debate, Volume 18, Issue 1, May 2007.

Average of all types of stays, extended etc.

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Trumbull Exhibit 1-2

- Category 2: Treatment –
- Supporting Individuals Affected by the Epidemic
- 2A. Connecting Individuals to Care
 - 2B. Treating Opioid Use Disorder
 - 2C. Managing Complications Attributable to the Epidemic
 - 2D. Workforce Expansion and Resiliency
 - 2E. Distributing Naloxone and Providing Training

Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A4a. Interventions for Infants Exposed to Opioids in Utero

Year	Number of infants diagnosed with	(NAS) Medical	Annual cost	Present Value
	NAS ¹	Costs Per Case ¹	growth rate ² Total Cost ³	
2021	24	\$33,325		\$795,729
2022	23	\$34,323	2.99%	\$780,182
2023	22	\$35,350	2.99%	\$764,938
2024	21	\$36,408	2.99%	\$749,992
2025	20	\$37,498	2.99%	\$735,338
2026	19	\$38,620	2.99%	\$720,996
2027	18	\$39,776	2.99%	\$709,242
2028	17	\$40,966	2.99%	\$697,679
2029	17	\$42,192	2.99%	\$686,305
2030	16	\$43,455	2.99%	\$675,116
2031	15	\$44,756	2.99%	\$664,109
2032	14	\$46,095	2.99%	\$653,282
2033	14	\$47,475	2.99%	\$642,631
2034	13	\$48,896	2.99%	\$632,154
2035	13	\$50,359	2.99%	\$621,544
				\$9,523,734

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U)³ U.S. City Average -- Total Medical Care. 2009-2019 Annual Average Percent Change⁴ Number of Infants diagnosed with NAS x NAS medical costs per infant case

1F5. Showing Surveillance, Evaluation, and Leadership-

Number and Compensation of Community Liasons

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$15.29	cle	17.92	15.29
Annual Hours:	2,080	yng		
Median Annual Wage:	\$31,803.20			

Year	Wage	Growth	Wage	Year
2019	\$31,803.20	2.43%	\$32,576.34	2020
2020	\$32,576.34	2.43%	\$33,368.27	2021
2021	\$33,368.27	2.43%	\$34,179.45	2022
2022	\$34,179.45	2.43%	\$35,010.35	2023
2023	\$35,010.35	2.43%	\$35,861.45	2024
2024	\$35,861.45	2.43%	\$36,733.25	2025
2025	\$36,733.25	2.43%	\$37,626.23	2026
2026	\$37,626.23	2.43%	\$38,540.92	2027
2027	\$38,540.92	2.43%	\$39,477.85	2028
2028	\$39,477.85	2.43%	\$40,437.56	2029
2029	\$40,437.56	2.43%	\$41,420.60	2030
2030	\$41,420.60	2.43%	\$42,427.53	2031
2031	\$42,427.53	2.43%	\$43,458.95	2032
2032	\$43,458.95	2.43%	\$44,515.43	2033
2033	\$44,515.43	2.43%	\$45,597.60	2034
2034	\$45,597.60	2.43%	\$46,706.08	2035
2035	\$46,706.08	2.43%		

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_d1.xlsx

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Schedule: 1F5. Showing Surveillance, Evaluation, and Leadership-
Number and Compensation of Community Liasons

Year	Number of Managers ¹	Median Wage of Liasons ¹⁰	Employer Paid Fringe Benefits ³	Total Compensation of Liasons ¹¹	Annual cost growth rate ⁵	Total Cost ¹²	Present Value
2021	0.4	\$ 33,368	26.74%	\$ 42,291	2.431%	\$16,517	\$16,517
2022	0.4	\$ 34,179	26.74%	\$ 43,319	2.431%	\$16,918	\$16,862
2023	0.4	\$ 35,010	26.74%	\$ 44,372	2.431%	\$17,329	\$17,215
2024	0.4	\$ 35,861	26.74%	\$ 45,451	2.431%	\$17,751	\$17,576
2025	0.4	\$ 36,733	26.74%	\$ 46,556	2.431%	\$18,182	\$17,944
2026	0.4	\$ 37,626	26.74%	\$ 47,687	2.431%	\$18,624	\$17,391
2027	0.4	\$ 38,541	26.74%	\$ 48,847	2.431%	\$19,077	\$17,571
2028	0.4	\$ 39,478	26.74%	\$ 50,034	2.431%	\$19,541	\$17,753
2029	0.4	\$ 40,438	26.74%	\$ 51,251	2.431%	\$20,016	\$17,937
2030	0.4	\$ 41,421	26.74%	\$ 52,496	2.431%	\$20,502	\$18,123
2031	0.4	\$ 42,428	26.74%	\$ 53,773	2.431%	\$21,001	\$16,631
2032	0.4	\$ 43,459	26.74%	\$ 55,080	2.431%	\$21,511	\$16,643
2033	0.4	\$ 44,515	26.74%	\$ 56,419	2.431%	\$22,034	\$16,655
2034	0.4	\$ 45,598	26.74%	\$ 57,790	2.431%	\$22,570	\$16,666
2035	0.4	\$ 46,706	26.74%	\$ 59,195	2.431%	\$23,118	\$16,678
						\$294,690	\$258,162

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019. economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual wage of Liasons + employer provided fringe benefit percentage of wages

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.

¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014)

¹¹ Median annual wage of Liasons + employer provided fringe benefit percentage of wages

¹² = Total number of Liasons x median total annual compensation of Liasons.

4A4a. Interventions for Infants Exposed to Opioids in Utero

Neonatal Abstinence Syndrome Medical Costs Per Infnat
Monument Analytics

Source #1: Loudin et al. : \$23,105.50 in 2015 dollars
+ 3.79% = 2016 TMC
\$23,981.20 in 2016 dollars
Source #2: HCUP: \$24,340.60 in 2016 dollars
Source #3: Milliren et al.: \$37,584.00 in 2016 dollars
\$28,635.27 Average in 2016 dollars

CPI Med Care				
Year	Cost	Growth	Wage	Year
2016	\$28,635.27	4.07%	\$29,801.87	2017
2017	\$29,801.87	1.78%	\$30,332.34	2018
2018	\$30,332.34	2.01%	\$30,942.32	2019
2019	\$30,942.32	4.57%	\$32,356.70	2020
2020	\$32,356.70	2.99%	\$33,325.13	2021
2021	\$33,325.13	2.99%	\$34,322.55	2022
2022	\$34,322.55	2.99%	\$35,349.83	2023
2023	\$35,349.83	2.99%	\$36,407.85	2024
2024	\$36,407.85	2.99%	\$37,497.54	2025
2025	\$37,497.54	2.99%	\$38,619.84	2026
2026	\$38,619.84	2.99%	\$39,775.73	2027
2027	\$39,775.73	2.99%	\$40,966.22	2028
2028	\$40,966.22	2.99%	\$42,192.33	2029
2029	\$42,192.33	2.99%	\$43,455.15	2030
2030	\$43,455.15	2.99%	\$44,755.76	2031
2031	\$44,755.76	2.99%	\$46,095.30	2032
2032	\$46,095.30	2.99%	\$47,474.94	2033
2033	\$47,474.94	2.99%	\$48,895.86	2034
2034	\$48,895.86	2.99%	\$50,359.31	2035
2035	\$50,359.31	2.99%		

Alexander

Source #1: Loudin et al. :

Source #2: HCUP:

Source #3: Milliren et al.:

Schedule: 4A. Pregnant Women, New Mothers, and Infants
 4A4b. Early Interventions for Infants Exposed to Opioids in Utero (0-5 years old)

Year	Number of children eligible for early intervention (0-5 years old) ¹	Early intervention cost per child (0-5 years old) ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	30	\$1,317		\$39,972	\$39,972
2022	59	\$1,333	1.28%	\$79,148	\$78,888
2023	87	\$1,350	1.28%	\$117,560	\$116,788
2024	114	\$1,368	1.28%	\$155,240	\$153,713
2025	139	\$1,385	1.28%	\$192,218	\$189,702
2026	163	\$1,403	1.28%	\$228,524	\$213,388
2027	156	\$1,421	1.28%	\$221,053	\$203,602
2028	149	\$1,439	1.28%	\$213,826	\$194,265
2029	142	\$1,457	1.28%	\$206,836	\$185,356
2030	136	\$1,476	1.28%	\$200,074	\$176,856
2031	129	\$1,495	1.28%	\$193,533	\$153,268
2032	124	\$1,514	1.28%	\$187,206	\$144,839
2033	118	\$1,533	1.28%	\$181,085	\$136,874
2034	113	\$1,553	1.28%	\$175,165	\$129,346
2035	108	\$1,573	1.28%	\$169,438	\$122,233
				\$2,560,878	\$2,239,091

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

⁴ = Nancy Young, Ph.D. Report, 8/2020 page 12.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change

⁶ = Total number of children eligible for early intervention (0-5 years old) × early intervention cost per child (0-5 years old)

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1F4. Showing Surveillance, Evaluation, and Leadership-
 Number and Compensation of Managers

Median Annual Wage of Medical and Health Service Managers (SOC 11-9111)

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$42.43	cle	yng
Annual Hours:	2,080	48.75	42.43
Median Annual Wage:	\$88,254.40		

Year	Wage	Growth	Wage	Year
2019	\$88,254.40	2.68%	\$90,618.36	2020
2020	\$90,618.36	2.28%	\$92,679.92	2021
2021	\$92,679.92	2.28%	\$94,788.39	2022
2022	\$94,788.39	2.28%	\$96,944.83	2023
2023	\$96,944.83	2.28%	\$99,150.32	2024
2024	\$99,150.32	2.28%	\$101,405.99	2025
2025	\$101,405.99	2.28%	\$103,712.98	2026
2026	\$103,712.98	2.28%	\$106,072.45	2027
2027	\$106,072.45	2.28%	\$108,485.60	2028
2028	\$108,485.60	2.28%	\$110,953.65	2029
2029	\$110,953.65	2.28%	\$113,477.84	2030
2030	\$113,477.84	2.28%	\$116,059.46	2031
2031	\$116,059.46	2.28%	\$118,699.82	2032
2032	\$118,699.82	2.28%	\$121,400.24	2033
2033	\$121,400.24	2.28%	\$124,162.09	2034
2034	\$124,162.09	2.28%	\$126,986.78	2035
2035	\$126,986.78			

Source: Occupational Employment Statistics (OES) Survey
 Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 1F4. Showing Surveillance, Evaluation, and Leadership-
Number and Compensation of Managers

Year	Number of Managers ¹	Median Wage of Managers ¹⁰	Employer Paid Fringe Benefits ³	Total Compensation of Managers ¹¹	Annual cost growth rate ⁵	Total Cost ¹²	Present Value
2021	0.4	\$ 92,680	26.74%	\$ 117,463	2.431%	\$45,874	\$45,874
2022	0.4	\$ 94,788	26.74%	\$ 120,135	2.431%	\$46,918	\$46,764
2023	0.4	\$ 96,945	26.74%	\$ 122,868	2.431%	\$47,985	\$47,670
2024	0.4	\$ 99,150	26.74%	\$ 125,663	2.431%	\$49,077	\$48,594
2025	0.4	\$ 101,406	26.74%	\$ 128,522	2.431%	\$50,194	\$49,536
2026	0.4	\$ 103,713	26.74%	\$ 131,446	2.431%	\$51,336	\$47,935
2027	0.4	\$ 106,072	26.74%	\$ 134,436	2.431%	\$52,503	\$48,359
2028	0.4	\$ 108,486	26.74%	\$ 137,495	2.431%	\$53,698	\$48,786
2029	0.4	\$ 110,954	26.74%	\$ 140,623	2.431%	\$54,919	\$49,216
2030	0.4	\$ 113,478	26.74%	\$ 143,822	2.431%	\$56,169	\$49,651
2031	0.4	\$ 116,059	26.74%	\$ 147,094	2.431%	\$57,447	\$45,495
2032	0.4	\$ 118,700	26.74%	\$ 150,440	2.431%	\$58,754	\$45,457
2033	0.4	\$ 121,400	26.74%	\$ 153,863	2.431%	\$60,090	\$45,419
2034	0.4	\$ 124,162	26.74%	\$ 157,363	2.431%	\$61,457	\$45,382
2035	0.4	\$ 126,987	26.74%	\$ 160,943	2.431%	\$62,856	\$45,344
						\$809,277	\$709,483

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019, economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.¹⁰ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Health Service Managers SOC: 11-9111)¹¹ Median annual wage of Managers + employer provided fringe benefit percentage of wages¹² = Total number of Managers x median total annual compensation of Managers.

4A4b. Early Interventions for Infants Exposed to Opioids in Utero (0-5 years old)

Interventions for Infants Exposed to Opioids in Utero
Early Intervention: 0-5 years of age: \$1,300.00

CPI Service Other Med Prof				
Year	Cost	Growth	Cost	Year
2020	\$1,300.00	1.28%	\$1,316.60	2021
2021	\$1,316.60	1.28%	\$1,333.41	2022
2022	\$1,333.41	1.28%	\$1,350.44	2023
2023	\$1,350.44	1.28%	\$1,367.69	2024
2024	\$1,367.69	1.28%	\$1,385.15	2025
2025	\$1,385.15	1.28%	\$1,402.84	2026
2026	\$1,402.84	1.28%	\$1,420.75	2027
2027	\$1,420.75	1.28%	\$1,438.90	2028
2028	\$1,438.90	1.28%	\$1,457.27	2029
2029	\$1,457.27	1.28%	\$1,475.88	2030
2030	\$1,475.88	1.28%	\$1,494.73	2031
2031	\$1,494.73	1.28%	\$1,513.82	2032
2032	\$1,513.82	1.28%	\$1,533.15	2033
2033	\$1,533.15	1.28%	\$1,552.73	2034
2034	\$1,552.73	1.28%	\$1,572.55	2035
2035	\$1,572.55	1.28%		

Psychosocial Services: 0-5 years of age:

Source: Nancy Young sources Page 12.

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Schedule: 4A. Pregnant Women, New Mothers, and Infants

4A4c. Special Education and Psychosocial Services Interventions for Infants Exposed to Opioids in Utero (6-21 years old)

Year	Number of children eligible for special education and psychosocial services (6-21 years old) ¹	Special education and psychosocial services cost per child (6-21 years old) ⁴	Annual cost growth rate ⁵	Total Cost ⁷	Present Value
2021	0	\$3,907		\$0	\$0
2022	0	\$3,957	1.28%	\$0	\$0
2023	0	\$4,008	1.28%	\$0	\$0
2024	0	\$4,059	1.28%	\$0	\$0
2025	0	\$4,111	1.28%	\$0	\$0
2026	0	\$4,163	1.28%	\$0	\$0
2027	5	\$4,216	1.28%	\$19,431	\$17,897
2028	9	\$4,270	1.28%	\$38,474	\$34,955
2029	13	\$4,325	1.28%	\$57,147	\$51,212
2030	17	\$4,380	1.28%	\$75,463	\$66,706
2031	21	\$4,436	1.28%	\$93,438	\$73,998
2032	25	\$4,493	1.28%	\$111,087	\$85,947
2033	28	\$4,550	1.28%	\$128,423	\$97,069
2034	32	\$4,608	1.28%	\$145,460	\$107,411
2035	35	\$4,667	1.28%	\$162,211	\$117,019
				\$831,135	\$652,214

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁴ = Nancy Young, Ph.D. Report, 8/2020, page 12.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁷ = Total number of children eligible for special education and psychosocial services (6-21 years old) × special education and psychosocial services cost per child (6-21 years old)

1F3. Showing Surveillance, Evaluation, and Leadership-

Number and Compensation of Staff Assistants

Median Annual Wage of Secretaries and Administrative Assistants (SOC 43-6014)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$15.29

Annual Hours: 2,080

Median Annual Wage: \$31,803.20

cle yng
17.92 15.29

Year	Wage	Growth	Wage	Year
2019	\$31,803.20	2.43%	\$32,576.34	2020
2020	\$32,576.34	2.43%	\$33,368.27	2021
2021	\$33,368.27	2.43%	\$34,179.45	2022
2022	\$34,179.45	2.43%	\$35,010.35	2023
2023	\$35,010.35	2.43%	\$35,861.45	2024
2024	\$35,861.45	2.43%	\$36,733.25	2025
2025	\$36,733.25	2.43%	\$37,626.23	2026
2026	\$37,626.23	2.43%	\$38,540.92	2027
2027	\$38,540.92	2.43%	\$39,477.85	2028
2028	\$39,477.85	2.43%	\$40,437.56	2029
2029	\$40,437.56	2.43%	\$41,420.60	2030
2030	\$41,420.60	2.43%	\$42,427.53	2031
2031	\$42,427.53	2.43%	\$43,458.95	2032
2032	\$43,458.95	2.43%	\$44,515.43	2033
2033	\$44,515.43	2.43%	\$45,597.60	2034
2034	\$45,597.60	2.43%	\$46,706.08	2035
2035	\$46,706.08	2.43%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 1F3. Showing Surveillance, Evaluation, and Leadership-
Number and Compensation of Staff Assistants

Year	Number of Staff Assistants ¹	Median Wage of Staff Assistants ²	Employer Paid Fringe Benefits ³	Total Compensation of staff assistants ¹¹	Annual cost growth rate ⁵	Total Cost ¹²	Present Value
2021	0.4	\$ 33,368	26.74%	\$ 42,291	2.431%	\$16,517	\$16,517
2022	0.4	\$ 34,179	26.74%	\$ 43,319	2.431%	\$16,918	\$16,862
2023	0.4	\$ 35,010	26.74%	\$ 44,372	2.431%	\$17,329	\$17,215
2024	0.4	\$ 35,861	26.74%	\$ 45,451	2.431%	\$17,751	\$17,576
2025	0.4	\$ 36,733	26.74%	\$ 46,556	2.431%	\$18,182	\$17,944
2026	0.4	\$ 37,626	26.74%	\$ 47,687	2.431%	\$18,624	\$17,391
2027	0.4	\$ 38,541	26.74%	\$ 48,847	2.431%	\$19,077	\$17,571
2028	0.4	\$ 39,478	26.74%	\$ 50,034	2.431%	\$19,541	\$17,753
2029	0.4	\$ 40,438	26.74%	\$ 51,251	2.431%	\$20,016	\$17,937
2030	0.4	\$ 41,421	26.74%	\$ 52,496	2.431%	\$20,502	\$18,123
2031	0.4	\$ 42,428	26.74%	\$ 53,773	2.431%	\$21,001	\$16,631
2032	0.4	\$ 43,459	26.74%	\$ 55,080	2.431%	\$21,511	\$16,643
2033	0.4	\$ 44,515	26.74%	\$ 56,419	2.431%	\$22,034	\$16,655
2034	0.4	\$ 45,598	26.74%	\$ 57,790	2.431%	\$22,570	\$16,666
2035	0.4	\$ 46,706	26.74%	\$ 59,195	2.431%	\$23,118	\$16,678
						\$294,690	\$258,162

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Secretaries and Administrative Assistants SOC: 43-6014)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019. economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.

¹¹ Median annual wage of staff assistants + employer provided fringe benefit percentage of wages

¹² = Total number of staff assistants x median total annual compensation of staff assistants

4A4c. Special Education and Psychosocial Services Interventions for Infants Exposed to Opioids in Utero (6-21 years old)

Interventions for Infants Exposed to Opioids in Utero
Special Education: 6-21 years of age: \$3,858.00
Service of
Other
Med Prof

Year	Cost	Growth	Cost	Year
2020	\$3,858.00	1.28%	\$3,907.27	2021
2021	\$3,907.27	1.28%	\$3,957.16	2022
2022	\$3,957.16	1.28%	\$4,007.70	2023
2023	\$4,007.70	1.28%	\$4,058.87	2024
2024	\$4,058.87	1.28%	\$4,110.71	2025
2025	\$4,110.71	1.28%	\$4,163.20	2026
2026	\$4,163.20	1.28%	\$4,216.36	2027
2027	\$4,216.36	1.28%	\$4,270.21	2028
2028	\$4,270.21	1.28%	\$4,324.74	2029
2029	\$4,324.74	1.28%	\$4,379.96	2030
2030	\$4,379.96	1.28%	\$4,435.90	2031
2031	\$4,435.90	1.28%	\$4,492.54	2032
2032	\$4,492.54	1.28%	\$4,549.91	2033
2033	\$4,549.91	1.28%	\$4,608.01	2034
2034	\$4,608.01	1.28%	\$4,666.86	2035
2035	\$4,666.86	1.28%		

Psychosocial Services: 6-21years of age:

Source: Nancy Young sources Page 12.

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Schedule: 4B. Adolescents and Young Adults

4B1. School-Based Prevention Programs

Year	Adolescents to receive prevention programs ¹	Cost per prevention intervention per adolescent ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	8,115	\$69.04		\$560,305	\$560,305
2022	7,768	\$70.61	2.28%	\$548,493	\$546,688
2023	7,420	\$72.22	2.28%	\$535,853	\$532,333
2024	7,072	\$73.86	2.28%	\$522,354	\$517,216
2025	6,724	\$75.54	2.28%	\$507,963	\$501,313
2026	6,376	\$77.26	2.28%	\$492,648	\$460,018
2027	6,029	\$79.02	2.28%	\$476,373	\$438,766
2028	5,681	\$80.82	2.28%	\$459,102	\$417,103
2029	5,333	\$82.66	2.28%	\$440,799	\$395,023
2030	4,985	\$84.54	2.28%	\$421,425	\$372,520
2031	4,637	\$86.46	2.28%	\$400,942	\$317,525
2032	4,290	\$88.43	2.28%	\$379,308	\$293,467
2033	3,942	\$90.44	2.28%	\$356,483	\$269,449
2034	3,594	\$92.50	2.28%	\$332,423	\$245,470
2035	3,246	\$94.60	2.28%	\$307,084	\$221,530
				\$6,741,554	\$6,088,727

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Workers Workers, 2009-2019 Annual Average Percent Change.³ Number of adolescents to receive prevention programs x cost per prevention intervention per adolescent

1F2. Showing Surveillance, Evaluation, and Leadership-

Number and Compensation of Data Analysts

Median Annual Wage of Operations Research Analysts (SOC 15-2031)

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$38.64	cle	38.64	yng	no data
Annual Hours:	2,080				
Median Annual Wage:	\$80,371.20				

Year	Wage	Growth	Wage	Year
2019	\$80,371.20	2.68%	\$82,524.00	2020
2020	\$82,524.00	2.28%	\$84,401.42	2021
2021	\$84,401.42	2.28%	\$86,321.55	2022
2022	\$86,321.55	2.28%	\$88,285.37	2023
2023	\$88,285.37	2.28%	\$90,293.86	2024
2024	\$90,293.86	2.28%	\$92,348.05	2025
2025	\$92,348.05	2.28%	\$94,448.96	2026
2026	\$94,448.96	2.28%	\$96,597.68	2027
2027	\$96,597.68	2.28%	\$98,795.28	2028
2028	\$98,795.28	2.28%	\$101,042.87	2029
2029	\$101,042.87	2.28%	\$103,341.59	2030
2030	\$103,341.59	2.28%	\$105,692.61	2031
2031	\$105,692.61	2.28%	\$108,097.12	2032
2032	\$108,097.12	2.28%	\$110,556.33	2033
2033	\$110,556.33	2.28%	\$113,071.49	2034
2034	\$113,071.49	2.28%	\$115,643.86	2035
2035	\$115,643.86			

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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1F2. Showing Surveillance, Evaluation, and Leadership-
Number and Compensation of Data Analysts

Number and Compensation of Data Analysts							
Year	Number of Data Analysts ¹	Median annual wage of Data Analysts ²	Employer Paid Fringe Benefits ³	Total Compensation of Data Analysts ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	1.6	\$84,401	26.74%	\$106,970	2.43%	\$167,107	\$167,107
2022	1.6	\$86,322	26.74%	\$109,404	2.43%	\$170,909	\$170,346
2023	1.6	\$88,285	26.74%	\$111,893	2.43%	\$174,797	\$173,649
2024	1.6	\$90,294	26.74%	\$114,438	2.43%	\$178,773	\$177,015
2025	1.6	\$92,348	26.74%	\$117,042	2.43%	\$182,841	\$180,447
2026	1.6	\$94,449	26.74%	\$119,705	2.43%	\$187,000	\$174,615
2027	1.6	\$96,598	26.74%	\$122,428	2.43%	\$191,254	\$176,156
2028	1.6	\$98,795	26.74%	\$125,213	2.43%	\$195,605	\$177,711
2029	1.6	\$101,043	26.74%	\$128,062	2.43%	\$200,055	\$179,280
2030	1.6	\$103,342	26.74%	\$130,975	2.43%	\$204,607	\$180,863
2031	1.6	\$105,693	26.74%	\$133,955	2.43%	\$209,262	\$165,724
2032	1.6	\$108,097	26.74%	\$137,002	2.43%	\$214,022	\$165,587
2033	1.6	\$110,556	26.74%	\$140,119	2.43%	\$218,891	\$165,449
2034	1.6	\$113,071	26.74%	\$143,307	2.43%	\$223,871	\$165,312
2035	1.6	\$115,644	26.74%	\$146,567	2.43%	\$228,964	\$165,175
						\$2,947,959	\$2,584,437

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Social and Community Medical and Health Service Managers SOC: 11-9111)

³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

⁴ Median annual wage of director + employer provided fringe benefit percentage of wages

⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.

⁶ = Total number of directors × total annual compensation of directors

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (Operations Research Analysts SOC: 15-2031)

⁸ Median annual wage of director + employer provided fringe benefit percentage of wages

⁹ = Total number of data analysts × total annual compensation of data analysts

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4B1. School-Based Prevention Programs

ECI All Wkrs				
Year	Cost	Growth	Wage	Year
2008	\$ 52.00	2.45%	\$53.27	2009
2009	\$53.27	1.19%	\$53.91	2010
2010	\$53.91	2.09%	\$55.03	2011
2011	\$55.03	2.22%	\$56.26	2012
2012	\$56.26	1.83%	\$57.28	2013
2013	\$57.28	1.96%	\$58.41	2014
2014	\$58.41	2.35%	\$59.78	2015
2015	\$59.78	1.88%	\$60.90	2016
2016	\$60.90	2.17%	\$62.22	2017
2017	\$62.22	2.59%	\$63.84	2018
2018	\$63.84	2.99%	\$65.75	2019
2019	\$65.75	2.68%	\$67.51	2020
2020	\$67.51	2.28%	\$69.04	2021
2021	\$69.04	2.28%	\$70.61	2022
2022	\$70.61	2.28%	\$72.22	2023
2023	\$72.22	2.28%	\$73.86	2024
2024	\$73.86	2.28%	\$75.54	2025
2025	\$75.54	2.28%	\$77.26	2026
2026	\$77.26	2.28%	\$79.02	2027
2027	\$79.02	2.28%	\$80.82	2028
2028	\$80.82	2.28%	\$82.66	2029
2029	\$82.66	2.28%	\$84.54	2030
2030	\$84.54	2.28%	\$86.46	2031
2031	\$86.46	2.28%	\$88.43	2032
2032	\$88.43	2.28%	\$90.44	2033
2033	\$90.44	2.28%	\$92.50	2034
2034	\$92.50	2.28%	\$94.60	2035
2035	\$94.60	2.28%		

Source: Alexander

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Schedule: 4B. Adolescents and Young Adults
4B2. Adolescents Screening for Opioid Use Disorder

Year	Number of adolescents to receive ¹	Cost per adolescent ¹	Annual cost growth rate ⁴	Total Cost ⁵	Present Value
2021	434	\$75.79		\$32,897	\$32,897
2022	415	\$78.20	3.18%	\$32,419	\$32,313
2023	396	\$80.69	3.18%	\$31,949	\$31,739
2024	378	\$83.25	3.18%	\$31,485	\$31,176
2025	361	\$85.90	3.18%	\$31,029	\$30,622
2026	345	\$88.63	3.18%	\$30,579	\$28,553
2027	330	\$91.45	3.18%	\$30,135	\$27,756
2028	315	\$94.36	3.18%	\$29,698	\$26,981
2029	301	\$97.36	3.18%	\$29,267	\$26,228
2030	287	\$100.46	3.18%	\$28,842	\$25,495
2031	274	\$103.66	3.18%	\$28,424	\$22,510
2032	262	\$106.96	3.18%	\$28,012	\$21,672
2033	250	\$110.36	3.18%	\$27,605	\$20,865
2034	239	\$113.87	3.18%	\$27,205	\$20,089
2035	228	\$117.49	3.18%	\$26,810	\$19,341
				\$446,355	\$398,237

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Workers Workers, 2009-2019 Annual Average Percent Change.

⁴ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Medical Care Services. 2009-2019 Annual Average Percent Change

⁵ = Number of adolescents to receive × cost per adolescent

1F1. Showing Surveillance, Evaluation, and Leadership-

Number of Directors & Director Compensation

CLE-Youngstown MSA May 2019

Median Hourly Wage:	\$53.05	cle	yng
Annual Hours:	2,080	none	53.05
Median Annual Wage:	\$110,344.00		

ECI					
Year	Wage	Growth	Wage	Year	
2019	\$110,344.00	2.68%	\$113,299.64	2020	
2020	\$113,299.64	2.28%	\$115,877.21	2021	
2021	\$115,877.21	2.28%	\$118,513.42	2022	
2022	\$118,513.42	2.28%	\$121,209.60	2023	
2023	\$121,209.60	2.28%	\$123,967.11	2024	
2024	\$123,967.11	2.28%	\$126,787.37	2025	
2025	\$126,787.37	2.28%	\$129,671.78	2026	
2026	\$129,671.78	2.28%	\$132,621.81	2027	
2027	\$132,621.81	2.28%	\$135,638.96	2028	
2028	\$135,638.96	2.28%	\$138,724.74	2029	
2029	\$138,724.74	2.28%	\$141,880.73	2030	
2030	\$141,880.73	2.28%	\$145,108.52	2031	
2031	\$145,108.52	2.28%	\$148,409.74	2032	
2032	\$148,409.74	2.28%	\$151,786.06	2033	
2033	\$151,786.06	2.28%	\$155,239.19	2034	
2034	\$155,239.19	2.28%	\$158,770.88	2035	
2035	\$158,770.88				

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 1F1. Showing Surveillance, Evaluation, and Leadership-
Number of Directors & Director Compensation

Year	Number of Directors ¹	Median annual wage of Director ²	Employer Paid Fringe Benefits ³	Total Compensation of Directors ⁴	Annual cost growth rate ⁵	Total Cost ⁶	Present Value
2021	0.4	\$115,877	26.74%	\$146,863	2.43%	\$57,357	\$57,357
2022	0.4	\$118,513	26.74%	\$150,204	2.43%	\$58,661	\$58,468
2023	0.4	\$121,210	26.74%	\$153,621	2.43%	\$59,996	\$59,602
2024	0.4	\$123,967	26.74%	\$157,116	2.43%	\$61,361	\$60,757
2025	0.4	\$126,787	26.74%	\$160,690	2.43%	\$62,757	\$61,935
2026	0.4	\$129,672	26.74%	\$164,346	2.43%	\$64,185	\$59,933
2027	0.4	\$132,622	26.74%	\$168,085	2.43%	\$65,645	\$60,462
2028	0.4	\$135,639	26.74%	\$171,909	2.43%	\$67,138	\$60,996
2029	0.4	\$138,725	26.74%	\$175,820	2.43%	\$68,666	\$61,535
2030	0.4	\$141,881	26.74%	\$179,820	2.43%	\$70,228	\$62,078
2031	0.4	\$145,109	26.74%	\$183,911	2.43%	\$71,825	\$56,882
2032	0.4	\$148,410	26.74%	\$188,095	2.43%	\$73,459	\$56,835
2033	0.4	\$151,786	26.74%	\$192,374	2.43%	\$75,131	\$56,788
2034	0.4	\$155,239	26.74%	\$196,750	2.43%	\$76,840	\$56,740
2035	0.4	\$158,771	26.74%	\$201,226	2.43%	\$78,588	\$56,693
						\$1,011,835	\$887,062

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019 (CEO/Director SOC: 11-1011)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ Median annual wage of director + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index Index, December 2019. Private Sector All Workers.⁶ = Total number of directors × total annual compensation of directors

4B2. Adolescents Screening for Opioid Use Disorder

Cost per adolescent \$67.00 in 2017 dollars

CPI Med Care Svc's				
Year	Cost	Growth	Wage	Year
2017	\$67.00	1.64%	\$68.10	2018
2018	\$68.10	2.64%	\$69.90	2019
2019	\$69.90	5.09%	\$73.45	2020
2020	\$73.45	3.18%	\$75.79	2021
2021	\$75.79	3.18%	\$78.20	2022
2022	\$78.20	3.18%	\$80.69	2023
2023	\$80.69	3.18%	\$83.25	2024
2024	\$83.25	3.18%	\$85.90	2025
2025	\$85.90	3.18%	\$88.63	2026
2026	\$88.63	3.18%	\$91.45	2027
2027	\$91.45	3.18%	\$94.36	2028
2028	\$94.36	3.18%	\$97.36	2029
2029	\$97.36	3.18%	\$100.46	2030
2030	\$100.46	3.18%	\$103.66	2031
2031	\$103.66	3.18%	\$106.96	2032
2032	\$106.96	3.18%	\$110.36	2033
2033	\$110.36	3.18%	\$113.87	2034
2034	\$113.87	3.18%	\$117.49	2035
2035	\$117.49	3.18%		

Source: Alexander

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4B. Adolescents and Young Adults

4B3. School Social Workers

Year	Number of School Social Workers ¹	Median wage of School Social Worker ⁷	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁸	Annual growth rate ⁵	Total Cost ⁹	Present Value
2021	8.4	\$61,055	26.74%	\$77,381	1.970%	\$646,856	\$646,856
2022	8.0	\$62,257	26.74%	\$78,905	1.970%	\$629,990	\$627,918
2023	7.6	\$63,484	26.74%	\$80,460	1.970%	\$613,564	\$609,534
2024	7.3	\$64,735	26.74%	\$82,045	1.970%	\$597,566	\$591,689
2025	7.0	\$66,010	26.74%	\$83,661	1.970%	\$581,985	\$574,366
2026	6.6	\$67,310	26.74%	\$85,309	1.970%	\$566,810	\$529,269
2027	6.3	\$68,636	26.74%	\$86,990	1.970%	\$552,031	\$508,452
2028	6.1	\$69,988	26.74%	\$88,703	1.970%	\$537,638	\$488,454
2029	5.8	\$71,367	26.74%	\$90,451	1.970%	\$523,619	\$469,242
2030	5.5	\$72,773	26.74%	\$92,233	1.970%	\$509,966	\$450,787
2031	5.3	\$74,207	26.74%	\$94,050	1.970%	\$496,670	\$393,337
2032	5.0	\$75,669	26.74%	\$95,902	1.970%	\$483,719	\$374,249
2033	4.8	\$77,159	26.74%	\$97,792	1.970%	\$471,107	\$356,087
2034	4.6	\$78,679	26.74%	\$99,718	1.970%	\$458,823	\$338,807
2035	4.4	\$80,229	26.74%	\$101,683	1.970%	\$446,860	\$322,365
						\$8,117,205	\$7,281,411

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D.³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index (ECI) Compensation, All Health and Social Assistance Workers. 2009-2019 Annual Average Percent Change⁶ = Total number of MAT recruitment consultants needed × total annual compensation of nurse practitioners⁷ U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE and YNG, OH Metropolitan Statistical Areas. May 2019 (Healthcare Social Workers SOC: 21-1022)⁸ = Median annual social worker wage + employer provided fringe benefit percentage of wages⁹ = Total number of school social workers × total annual compensation of school social worker

1E3: Showing the Number of Fentanyl Testing Strips Needed 2021-2035

Fentanyl Testing Strips

Cost Per Fentanyl Testing Strip: \$1.00 in 2020 \$s

CPI-Med Commod				
Year	Cost	Growth	Cost	Year
2020	\$1.00	2.32%	\$1.02	2021
2021	\$1.02	2.32%	\$1.05	2022
2022	\$1.05	2.32%	\$1.07	2023
2023	\$1.07	2.32%	\$1.10	2024
2024	\$1.10	2.32%	\$1.12	2025
2025	\$1.12	2.32%	\$1.15	2026
2026	\$1.15	2.32%	\$1.17	2027
2027	\$1.17	2.32%	\$1.20	2028
2028	\$1.20	2.32%	\$1.23	2029
2029	\$1.23	2.32%	\$1.26	2030
2030	\$1.26	2.32%	\$1.29	2031
2031	\$1.29	2.32%	\$1.32	2032
2032	\$1.32	2.32%	\$1.35	2033
2033	\$1.35	2.32%	\$1.38	2034
2034	\$1.38	2.32%	\$1.41	2035
2035	\$1.41			

Source: Alexander

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Sche. 1E3. Showing the Number of Fentanyl Testing Strips Needed 2021-2035

Year	Fentanyl Testing Strips Needed ¹	Cost Per Fentanyl Testing Strip ¹	Annual Growth Rate ²	Total Cost ³	Present Value
2021	150,592	\$ 1.02		\$ 154,080	\$ 154,080
2022	159,243	\$ 1.05	2.32%	\$ 166,704	\$ 166,156
2023	166,813	\$ 1.07	2.32%	\$ 178,674	\$ 177,500
2024	173,383	\$ 1.10	2.32%	\$ 190,012	\$ 188,143
2025	179,027	\$ 1.12	2.32%	\$ 200,741	\$ 198,113
2026	183,815	\$ 1.15	2.32%	\$ 210,883	\$ 196,916
2027	187,812	\$ 1.17	2.32%	\$ 220,459	\$ 203,055
2028	191,080	\$ 1.20	2.32%	\$ 229,490	\$ 208,496
2029	193,676	\$ 1.23	2.32%	\$ 237,995	\$ 213,280
2030	195,654	\$ 1.26	2.32%	\$ 245,994	\$ 217,447
2031	197,064	\$ 1.29	2.32%	\$ 253,505	\$ 200,763
2032	197,953	\$ 1.32	2.32%	\$ 260,547	\$ 201,582
2033	198,366	\$ 1.35	2.32%	\$ 267,136	\$ 201,916
2034	198,342	\$ 1.38	2.32%	\$ 273,291	\$ 201,805
2035	197,921	\$ 1.41	2.32%	\$ 279,026	\$ 201,290
				\$ 3,368,537	\$ 2,930,541

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (Medical Care Commodities). 2009-2019, 2.32% Annual Average Change.³ = Number of fentanyl testing strips needed × cost per fentanyl testing strip

4B3. School Social Workers

Median Hourly Wage of Healthcare Social Workers (SOC 21-1022)

CLE MSA & YNG MSA May 2019

Median Hourly Wage:	\$28.23	cle	yng
Annual Hours:	2,080	28.23	\$ 25.32
Median Annual Wage:	\$58,718.40		

Year	Wage	Growth	Wage	Year
2019	\$58,718.40	1.97%	\$59,875.15	2020
2020	\$59,875.15	1.97%	\$61,054.69	2021
2021	\$61,054.69	1.97%	\$62,257.47	2022
2022	\$62,257.47	1.97%	\$63,483.94	2023
2023	\$63,483.94	1.97%	\$64,734.58	2024
2024	\$64,734.58	1.97%	\$66,009.85	2025
2025	\$66,009.85	1.97%	\$67,310.24	2026
2026	\$67,310.24	1.97%	\$68,636.25	2027
2027	\$68,636.25	1.97%	\$69,988.39	2028
2028	\$69,988.39	1.97%	\$71,367.16	2029
2029	\$71,367.16	1.97%	\$72,773.09	2030
2030	\$72,773.09	1.97%	\$74,206.72	2031
2031	\$74,206.72	1.97%	\$75,668.59	2032
2032	\$75,668.59	1.97%	\$77,159.27	2033
2033	\$77,159.27	1.97%	\$78,679.30	2034
2034	\$78,679.30	1.97%	\$80,229.29	2035
2035	\$80,229.29	1.97%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

Schedule: 4C. Families and Children

4C1a. Support for Children Living with Parents with OUD (Socio-Emotional Support)

Year	Children to receive socio-emotional support ¹	Socio-emotional support cost per child ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	548	\$4,168		\$2,282,254	\$2,282,254
2022	523	\$4,221	1.28%	\$2,207,640	\$2,200,379
2023	500	\$4,275	1.28%	\$2,135,466	\$2,121,441
2024	477	\$4,329	1.28%	\$2,065,651	\$2,045,336
2025	456	\$4,385	1.28%	\$1,998,119	\$1,971,960
2026	435	\$4,441	1.28%	\$1,932,795	\$1,804,780
2027	416	\$4,497	1.28%	\$1,869,606	\$1,722,013
2028	397	\$4,555	1.28%	\$1,808,484	\$1,643,042
2029	379	\$4,613	1.28%	\$1,749,359	\$1,567,692
2030	362	\$4,672	1.28%	\$1,692,168	\$1,495,797
2031	346	\$4,731	1.28%	\$1,636,846	\$1,296,298
2032	330	\$4,792	1.28%	\$1,583,333	\$1,225,008
2033	316	\$4,853	1.28%	\$1,531,569	\$1,157,639
2034	301	\$4,915	1.28%	\$1,481,497	\$1,093,975
2035	288	\$4,978	1.28%	\$1,433,063	\$1,033,812
				\$27,407,850	\$24,661,427

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² = Nancy Young, Ph.D. Report, p21 & 22.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁴ = Number of children to receive socio-emotional support × socio-emotional support cost per child

1E2b. Showing Drug Checking Machines Recurring Costs 2021-2035

Median Annual Wage of Clinical Laboratory Technologists and Technicians (SOC 29-2010)

CLE-Youngstown MSA May 2019

Median Hourly Wage: \$24.58

Annual Hours: 2,080

Median Annual Wage: \$51,126

cle yng
28.07 24.58

ECI				
Year	Wage	Growth	Wage	Year
2019	\$51,126.40	1.97%	\$52,133.59	2020
2020	\$52,133.59	1.97%	\$53,160.62	2021
2021	\$53,160.62	1.97%	\$54,207.89	2022
2022	\$54,207.89	1.97%	\$55,275.78	2023
2023	\$55,275.78	1.97%	\$56,364.71	2024
2024	\$56,364.71	1.97%	\$57,475.10	2025
2025	\$57,475.10	1.97%	\$58,607.36	2026
2026	\$58,607.36	1.97%	\$59,761.92	2027
2027	\$59,761.92	1.97%	\$60,939.23	2028
2028	\$60,939.23	1.97%	\$62,139.74	2029
2029	\$62,139.74	1.97%	\$63,363.89	2030
2030	\$63,363.89	1.97%	\$64,612.16	2031
2031	\$64,612.16	1.97%	\$65,885.02	2032
2032	\$65,885.02	1.97%	\$67,182.95	2033
2033	\$67,182.95	1.97%	\$68,506.46	2034
2034	\$68,506.46	1.97%	\$69,856.03	2035
2035	\$69,856.03			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 1E2b. Showing Drug Checking Machines Recurring Costs 2021-2035

Year	Number of clinical laboratory technicians ¹	Median annual wage of clinical laboratory technicians ^{2,5}	Employer Paid Fringe Benefits (percent of wages) ³	Total annual Compensation ⁴	Total Cost ⁶	Present Value
2021	1	\$ 53,161	\$ 14,215	\$ 67,376	\$ 67,376	\$ 67,376
2022	1	\$ 54,208	\$ 14,495	\$ 68,703	\$ 68,703	\$ 68,477
2023	1	\$ 55,276	\$ 14,781	\$ 70,057	\$ 70,057	\$ 69,596
2024	1	\$ 56,365	\$ 15,072	\$ 71,437	\$ 71,437	\$ 70,734
2025	1	\$ 57,475	\$ 15,369	\$ 72,844	\$ 72,844	\$ 71,890
2026	1	\$ 58,607	\$ 15,672	\$ 74,279	\$ 74,279	\$ 69,359
2027	1	\$ 59,762	\$ 15,980	\$ 75,742	\$ 75,742	\$ 69,763
2028	1	\$ 60,939	\$ 16,295	\$ 77,234	\$ 77,234	\$ 70,169
2029	1	\$ 62,140	\$ 16,616	\$ 78,756	\$ 78,756	\$ 70,577
2030	1	\$ 63,364	\$ 16,944	\$ 80,307	\$ 80,307	\$ 70,988
2031	1	\$ 64,612	\$ 17,277	\$ 81,889	\$ 81,889	\$ 64,852
2032	1	\$ 65,885	\$ 17,618	\$ 83,503	\$ 83,503	\$ 64,605
2033	1	\$ 67,183	\$ 17,965	\$ 85,148	\$ 85,148	\$ 64,359
2034	1	\$ 68,506	\$ 18,319	\$ 86,825	\$ 86,825	\$ 64,114
2035	1	\$ 69,856	\$ 18,680	\$ 88,536	\$ 88,536	\$ 63,870
		\$ 917,339	\$ 245,296	\$ 1,162,635	\$ 1,162,635	\$ 1,020,730

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Areas. May 2019. (Clinical Laboratory Technologists and Technicians SOC 29-2010)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.47% Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁴ Median annual wage of clinical laboratory technicians + employer provided fringe benefit percentage of wages⁵ U.S. Department of Labor, Bureau of Labor Statistics. Employment Cost Index, Total Compensation Health Care Workers-2009-2019, 1.97% Annual Average Change.⁶ = Number of clinical laboratory technicians needed × total annual compensation of clinical laboratory technicians

4C1a. Support for Children Living with Parents with OUD (Socio-Emotional Support)

Socio-Emotional Support Per Child: \$4,115.00

		CPI		Other		Med Prof Svcs	
Year	Cost	Growth	Cost	Year	Cost	Year	Cost
2020	\$4,115.00	1.28%	\$4,167.55	2021	\$4,167.55	1.28%	\$4,220.77
2021	\$4,167.55	1.28%	\$4,220.77	2022	\$4,220.77	1.28%	\$4,274.67
2022	\$4,220.77	1.28%	\$4,274.67	2023	\$4,274.67	1.28%	\$4,329.25
2023	\$4,274.67	1.28%	\$4,329.25	2024	\$4,329.25	1.28%	\$4,384.54
2024	\$4,329.25	1.28%	\$4,384.54	2025	\$4,384.54	1.28%	\$4,440.53
2025	\$4,384.54	1.28%	\$4,440.53	2026	\$4,440.53	1.28%	\$4,497.24
2026	\$4,440.53	1.28%	\$4,497.24	2027	\$4,497.24	1.28%	\$4,554.67
2027	\$4,497.24	1.28%	\$4,554.67	2028	\$4,554.67	1.28%	\$4,612.83
2028	\$4,554.67	1.28%	\$4,612.83	2029	\$4,612.83	1.28%	\$4,671.73
2029	\$4,612.83	1.28%	\$4,671.73	2030	\$4,671.73	1.28%	\$4,731.39
2030	\$4,671.73	1.28%	\$4,731.39	2031	\$4,731.39	1.28%	\$4,791.81
2031	\$4,731.39	1.28%	\$4,791.81	2032	\$4,791.81	1.28%	\$4,853.00
2032	\$4,791.81	1.28%	\$4,853.00	2033	\$4,853.00	1.28%	\$4,914.98
2033	\$4,853.00	1.28%	\$4,914.98	2034	\$4,914.98	1.28%	\$4,977.74
2034	\$4,914.98	1.28%	\$4,977.74	2035	\$4,977.74	1.28%	

Source: Nancy Young 8/2020 p12

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Schedule: 4C. Families and Children

4C1b. Support for Families with Parents with OUD

Year	Number of families to receive peer/family mentoring services ¹	Intensive parent-child interventions cost per family ²	Peer/family mentoring services cost per family ²	Total support for families with parents with OUD ³	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	228	\$2,304	\$30,383	\$32,687		\$7,458,458	\$7,458,458
2022	218	\$2,333	\$30,771	\$33,105	1.28%	\$7,214,620	\$7,190,890
2023	208	\$2,363	\$31,164	\$33,527	1.28%	\$6,978,753	\$6,932,920
2024	199	\$2,393	\$31,562	\$33,955	1.28%	\$6,750,598	\$6,684,205
2025	190	\$2,424	\$31,965	\$34,389	1.28%	\$6,529,901	\$6,444,413
2026	181	\$2,455	\$32,373	\$34,828	1.28%	\$6,316,420	\$5,898,065
2027	173	\$2,486	\$32,787	\$35,273	1.28%	\$6,109,918	\$5,627,580
2028	165	\$2,518	\$33,205	\$35,723	1.28%	\$5,910,167	\$5,369,499
2029	158	\$2,550	\$33,629	\$36,180	1.28%	\$5,716,947	\$5,123,254
2030	151	\$2,583	\$34,059	\$36,642	1.28%	\$5,530,043	\$4,888,301
2031	144	\$2,616	\$34,494	\$37,110	1.28%	\$5,349,250	\$4,236,334
2032	138	\$2,649	\$34,934	\$37,583	1.28%	\$5,174,368	\$4,003,356
2033	131	\$2,683	\$35,380	\$38,063	1.28%	\$5,005,203	\$3,783,192
2034	126	\$2,717	\$35,832	\$38,549	1.28%	\$4,841,568	\$3,575,135
2035	120	\$2,752	\$36,290	\$39,042	1.28%	\$4,683,284	\$3,378,521
						\$89,569,497	\$80,594,122

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² = Nancy Young, Ph.D. Report 8/2020, p12 and 22..³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁵ = Total support for families with parents of OUD = intensive parent child interventions cost per family + peer family mentoring services cost per family⁶ = Number families with parents with OUD to receive services x total support for families with parents with OUD

1E2a. Showing Drug Checking Machines Required 2021-2035

Drug Checking Machines

Cost Per Drug Checking Machine: \$20,000 in 2018 \$\$

Year	Cost	Growth	Cost	Year
2018	\$20,000.00	1.16%	\$20,232.80	2019
2019	\$20,232.80	-0.04%	\$20,225.52	2020
2020	\$20,225.52	2.32%	\$20,693.94	2021
2021	\$20,693.94			

Source: Alexander

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Schedul 1E2a. Showing Drug Checking Machines Required 2021-2035

Year	Number of drug checking machines needed ¹	Cost per drug checking machine ¹	Annual cost growth rate ²	Total Cost ³	Present Value
2021	9.0	\$20,694		\$186,245	\$186,245
2022	0.0	\$ -	2.32%	\$ -	\$ -
2023	0.0	\$ -	2.32%	\$ -	\$ -
2024	0.0	\$ -	2.32%	\$ -	\$ -
2025	0.0	\$ -	2.32%	\$ -	\$ -
2026	0.0	\$ -	2.32%	\$ -	\$ -
2027	0.0	\$ -	2.32%	\$ -	\$ -
2028	0.0	\$ -	2.32%	\$ -	\$ -
2029	0.0	\$ -	2.32%	\$ -	\$ -
2030	0.0	\$ -	2.32%	\$ -	\$ -
2031	0.0	\$ -	2.32%	\$ -	\$ -
2032	0.0	\$ -	2.32%	\$ -	\$ -
2033	0.0	\$ -	2.32%	\$ -	\$ -
2034	0.0	\$ -	2.32%	\$ -	\$ -
2035	0.0	\$ -	2.32%	\$ -	\$ -
				<u>\$186,245</u>	<u>\$186,245</u>

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (Medical Care Commodities). 2009-2019 Annual Average Percent Change.³ = Number of drug checking machines needed x cost per drug checking machine

4C1b. Support for Families with Parents with OUD

Intensive Parent-Child Interventions Cost Per Child: \$2,275.00

CPI Other Med Prof Svcs				
Year	Cost	Growth	Cost	Year
2020	\$2,275.00	1.28%	\$2,304.05	2021
2021	\$2,304.05	1.28%	\$2,333.47	2022
2022	\$2,333.47	1.28%	\$2,363.27	2023
2023	\$2,363.27	1.28%	\$2,393.45	2024
2024	\$2,393.45	1.28%	\$2,424.02	2025
2025	\$2,424.02	1.28%	\$2,454.97	2026
2026	\$2,454.97	1.28%	\$2,486.32	2027
2027	\$2,486.32	1.28%	\$2,518.07	2028
2028	\$2,518.07	1.28%	\$2,550.23	2029
2029	\$2,550.23	1.28%	\$2,582.79	2030
2030	\$2,582.79	1.28%	\$2,615.78	2031
2031	\$2,615.78	1.28%	\$2,649.18	2032
2032	\$2,649.18	1.28%	\$2,683.01	2033
2033	\$2,683.01	1.28%	\$2,717.27	2034
2034	\$2,717.27	1.28%	\$2,751.97	2035
2035	\$2,751.97	1.28%		

Source: Nancy Young 8/2020 p 21

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Schedule: 4C. Families and Children
4C2a. Support for Children In Foster Care (Foster Care Cost Per Child)

Year	Number of children in foster care due to parental opioid use ¹	Foster care cost per child ²	Annual cost growth rate ⁷	Total Estimated Cost ⁸	Present Value
2021	39	\$12,628		\$493,051	\$493,051
2022	37	\$12,849	1.76%	\$479,183	\$477,607
2023	36	\$13,075	1.76%	\$465,705	\$462,646
2024	34	\$13,304	1.76%	\$452,606	\$448,154
2025	32	\$13,538	1.76%	\$439,875	\$434,116
2026	31	\$13,775	1.76%	\$427,502	\$399,188
2027	30	\$14,017	1.76%	\$415,478	\$382,679
2028	28	\$14,263	1.76%	\$403,792	\$366,852
2029	27	\$14,514	1.76%	\$392,434	\$351,680
2030	26	\$14,768	1.76%	\$381,396	\$337,136
2031	25	\$15,027	1.76%	\$370,668	\$293,550
2032	24	\$15,291	1.76%	\$360,242	\$278,716
2033	23	\$15,560	1.76%	\$350,109	\$264,631
2034	21	\$15,833	1.76%	\$340,262	\$251,258
2035	21	\$16,110	1.76%	\$330,691	\$238,560
				\$6,102,993	\$5,479,825

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Appendix C: Foster Care Maintenance Rates Lake County Ohio 2020 . Average daily rate.

www.policymattersohio.org/files/assets/kinshipcareappendicec.pdf and Lake County JFS.

⁷ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- All Items. 2009-2019 Annual Average Percent Change

⁸ = Number of children in foster care due to parental opioid use × foster care cost per child

1E1. Showing Syringe Service Programs 2021-2035

Syringe Service Programs

Syringe Service Program Cost Per Client: \$774.30 in 2016 dollars

CPI-Med Care Components				
Year	Cost	Growth	Cost	Year
2016	\$774.30	3.43%	\$800.84	2017
2017	\$800.84	2.80%	\$823.23	2018
2018	\$823.23	1.16%	\$832.82	2019
2019	\$832.82	-0.04%	\$832.52	2020
2020	\$832.52	2.32%	\$851.80	2021
2021	\$851.80	2.32%	\$871.53	2022
2022	\$871.53	2.32%	\$891.71	2023
2023	\$891.71	2.32%	\$912.36	2024
2024	\$912.36	2.32%	\$933.49	2025
2025	\$933.49	2.32%	\$955.11	2026
2026	\$955.11	2.32%	\$977.23	2027
2027	\$977.23	2.32%	\$999.87	2028
2028	\$999.87	2.32%	\$1,023.02	2029
2029	\$1,023.02	2.32%	\$1,046.72	2030
2030	\$1,046.72	2.32%	\$1,070.96	2031
2031	\$1,070.96	2.32%	\$1,095.76	2032
2032	\$1,095.76	2.32%	\$1,121.14	2033
2033	\$1,121.14	2.32%	\$1,147.10	2034
2034	\$1,147.10	2.32%	\$1,173.67	2035
2035	\$1,173.67	2.32%		

Source: Alexander

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Schedule: 1E1. Showing Syringe Service Programs 2021-2035

Year	Number of opioid injection drug users reached by SSPs ¹	Syringe service program cost per client ¹	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	413	\$851.80		\$351,436	\$351,436
2022	436	\$871.53	2.32%	\$380,230	\$378,980
2023	457	\$891.71	2.32%	\$407,532	\$404,855
2024	475	\$912.36	2.32%	\$433,392	\$429,130
2025	490	\$933.49	2.32%	\$457,864	\$451,870
2026	504	\$955.11	2.32%	\$480,997	\$449,139
2027	515	\$977.23	2.32%	\$502,839	\$463,143
2028	524	\$999.87	2.32%	\$523,436	\$475,552
2029	531	\$1,023.02	2.32%	\$542,836	\$486,463
2030	536	\$1,046.72	2.32%	\$561,080	\$495,969
2031	540	\$1,070.96	2.32%	\$578,212	\$457,914
2032	542	\$1,095.76	2.32%	\$594,273	\$459,783
2033	543	\$1,121.14	2.32%	\$609,303	\$460,543
2034	543	\$1,147.10	2.32%	\$623,340	\$460,290
2035	542	\$1,173.67	2.32%	\$636,423	\$459,115
				\$7,683,192	\$6,684,181

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (Medical Care Commodities). 2009-2019 2.32% Annual Average Change.³ = Number of opioid injection drug users reached by SSPs x syringe service program cost per client

4C2a. Support for Children In Foster Care (Foster Care Cost Per Child)
 Foster Care Annual Cost Per Child: \$12,410.00

Year	CPI-All Items		Cost	Year
	Cost	Growth		
2020	\$12,410.00	1.76%	\$12,627.80	2021
2021	\$12,627.80	1.76%	\$12,849.41	2022
2022	\$12,849.41	1.76%	\$13,074.92	2023
2023	\$13,074.92	1.76%	\$13,304.39	2024
2024	\$13,304.39	1.76%	\$13,537.88	2025
2025	\$13,537.88	1.76%	\$13,775.47	2026
2026	\$13,775.47	1.76%	\$14,017.23	2027
2027	\$14,017.23	1.76%	\$14,263.23	2028
2028	\$14,263.23	1.76%	\$14,513.55	2029
2029	\$14,513.55	1.76%	\$14,768.26	2030
2030	\$14,768.26	1.76%	\$15,027.44	2031
2031	\$15,027.44	1.76%	\$15,291.18	2032
2032	\$15,291.18	1.76%	\$15,559.54	2033
2033	\$15,559.54	1.76%	\$15,832.61	2034
2034	\$15,832.61	1.76%	\$16,110.47	2035
2035	\$16,110.47	1.76%		

Appendix C: Foster Care Maintenance Rates Lake County Ohio 2020 .
 Average daily rate.

www.policymattersohio.org/files/assets/kinshipcareappendicec.pdf

Schedule: 4C. Families and Children
 4C2b. Support for Children In Foster Care (Socio-Emotional Support)

Year	Number of children in foster care to receive socio-emotional support ¹	Socio-emotional support cost per child ²	Annual cost growth rate ³	Total Estimated Cost ⁴	Present Value
2021	16	\$4,168		\$65,089	\$65,089
2022	15	\$4,221	1.76%	\$62,961	\$62,754
2023	14	\$4,275	1.76%	\$60,902	\$60,502
2024	14	\$4,329	1.76%	\$58,911	\$58,332
2025	13	\$4,385	1.76%	\$56,985	\$56,239
2026	12	\$4,441	1.76%	\$55,122	\$51,471
2027	12	\$4,497	1.76%	\$53,320	\$49,111
2028	11	\$4,555	1.76%	\$51,577	\$46,859
2029	11	\$4,613	1.76%	\$49,891	\$44,710
2030	10	\$4,672	1.76%	\$48,260	\$42,659
2031	10	\$4,731	1.76%	\$46,682	\$36,970
2032	9	\$4,792	1.76%	\$45,156	\$34,937
2033	9	\$4,853	1.76%	\$43,680	\$33,015
2034	9	\$4,915	1.76%	\$42,251	\$31,200
2035	8	\$4,978	1.76%	\$40,870	\$29,484
				\$781,657	\$703,330

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Source: Nancy Young Report, 8/2020, p21.

³ Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change

⁴ = Number of children in foster care to receive socioemotional support × socioemotional support cost per child

1D13. Community Resiliency Coalition Funding
 Community Resiliency Coalition Funding

Year	Cost	Annual Decline in Cost	Growth Rate	SERVICES Other Med Prof	Year
2012	\$10.00	10.00%	1.70%	\$9.00	2013
2013	\$9.00	-10.00%	1.37%	\$8.10	2014
2014	\$8.10	-10.00%	0.82%	\$7.29	2015
2015	\$7.29	-10.00%	1.19%	\$6.56	2016
2016	\$6.56	-10.00%	2.44%	\$5.90	2017
2017	\$5.90	-10.00%	0.32%	\$5.31	2018
2018	\$5.31	-10.00%	0.78%	\$4.78	2019
2019	\$4.78	-10.00%	1.28%	\$4.30	2020
2020	\$4.30	-10.00%	1.28%	\$3.87	2021
2021	\$3.87	-10.00%	1.28%	\$3.49	2022
2022	\$3.49	-10.00%	1.28%	\$3.14	2023
2023	\$3.14	-10.00%	1.28%	\$2.82	2024
2024	\$2.82	-10.00%	1.28%	\$2.54	2025
2025	\$2.54	-10.00%	1.28%	\$2.29	2026
2026	\$2.29	-10.00%	1.28%	\$2.06	2027
2027	\$2.06	-10.00%	1.28%	\$1.85	2028
2028	\$1.85	-10.00%	1.28%	\$1.67	2029
2029	\$1.67	-10.00%	1.28%	\$1.50	2030
2030	\$1.50	-10.00%	1.28%	\$1.35	2031
2031	\$1.35	-10.00%	1.28%	\$1.22	2032
2032	\$1.22	-10.00%	1.28%	\$1.09	2033
2033	\$1.09	-10.00%	1.28%	\$0.98	2034
2034	\$0.98	-10.00%	1.28%	\$0.89	2035
2035	\$0.89				

Source: Alexander cost and annual decline

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Schedule: 1D. Showing Community Prevention and Resiliency

1D13. Community Resiliency Coalition Funding

Year	County population for community-based prevention programs ¹	Percentage change in community resiliency coalition funding ¹	Community-based prevention programs cost per capita ¹	Growth rate ⁵	Total Cost ¹⁴	Present Value
2021	169,301	50.0%	\$3.87		\$327,954	\$327,954
2022	169,301	46.8%	\$3.49	1.28%	\$276,416	\$275,507
2023	169,301	43.9%	\$3.14	1.28%	\$232,977	\$231,447
2024	169,301	41.1%	\$2.82	1.28%	\$196,365	\$194,434
2025	169,301	38.5%	\$2.54	1.28%	\$165,506	\$163,339
2026	169,301	36.0%	\$2.29	1.28%	\$139,497	\$130,258
2027	169,301	33.7%	\$2.06	1.28%	\$117,575	\$108,293
2028	169,301	31.6%	\$1.85	1.28%	\$99,098	\$90,032
2029	169,301	29.6%	\$1.67	1.28%	\$83,525	\$74,851
2030	169,301	27.7%	\$1.50	1.28%	\$70,399	\$62,229
2031	169,301	25.9%	\$1.35	1.28%	\$59,336	\$46,991
2032	169,301	24.3%	\$1.22	1.28%	\$50,011	\$38,693
2033	169,301	22.8%	\$1.09	1.28%	\$42,152	\$31,861
2034	169,301	21.3%	\$0.98	1.28%	\$35,528	\$26,235
2035	169,301	20.0%	\$0.89	1.28%	\$29,944	\$21,602
					\$1,926,282	\$1,823,725

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Area.⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index(All Items), 1990-2019 Annual Average Percent Change.¹⁴ =Total county population for community based prevention programs x percentage change in community resiliency coalition funding x community based prevention programs cost per capita.

4C2b. Support for Children In Foster Care (Socio-Emotional Support)

Socio-Emotional Support Per Child: \$4,115.00

CPI			Other		
Med Prof			Svcs		
Year	Cost	Growth	Cost	Year	
2020	\$4,115.00	1.28%	\$4,167.55	2021	
2021	\$4,167.55	1.28%	\$4,220.77	2022	
2022	\$4,220.77	1.28%	\$4,274.67	2023	
2023	\$4,274.67	1.28%	\$4,329.25	2024	
2024	\$4,329.25	1.28%	\$4,384.54	2025	
2025	\$4,384.54	1.28%	\$4,440.53	2026	
2026	\$4,440.53	1.28%	\$4,497.24	2027	
2027	\$4,497.24	1.28%	\$4,554.67	2028	
2028	\$4,554.67	1.28%	\$4,612.83	2029	
2029	\$4,612.83	1.28%	\$4,671.73	2030	
2030	\$4,671.73	1.28%	\$4,731.39	2031	
2031	\$4,731.39	1.28%	\$4,791.81	2032	
2032	\$4,791.81	1.28%	\$4,853.00	2033	
2033	\$4,853.00	1.28%	\$4,914.98	2034	
2034	\$4,914.98	1.28%	\$4,977.74	2035	
2035	\$4,977.74	1.28%			

Source: Nancy Young 8/2020 p21

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Schedule: 4C. Families and Children

4C2c. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Year	Number of foster families to receive intensive parent-child interventions ¹	Intensive parent-child interventions cost per family ²	Annual cost growth rate ³	Total Cost ¹⁰	Present Value
2021	8	\$2,304		\$17,955	\$17,955
2022	7	\$2,333	1.28%	\$17,368	\$17,311
2023	7	\$2,363	1.28%	\$16,800	\$16,690
2024	7	\$2,393	1.28%	\$16,251	\$16,091
2025	6	\$2,424	1.28%	\$15,719	\$15,514
2026	6	\$2,455	1.28%	\$15,206	\$14,198
2027	6	\$2,486	1.28%	\$14,708	\$13,547
2028	6	\$2,518	1.28%	\$14,228	\$12,926
2029	5	\$2,550	1.28%	\$13,762	\$12,333
2030	5	\$2,583	1.28%	\$13,313	\$11,768
2031	5	\$2,616	1.28%	\$12,877	\$10,198
2032	5	\$2,649	1.28%	\$12,456	\$9,637
2033	4	\$2,683	1.28%	\$12,049	\$9,107
2034	4	\$2,717	1.28%	\$11,655	\$8,606
2035	4	\$2,752	1.28%	\$11,274	\$8,133
				\$215,621	\$194,015

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Source: Nancy Young Report, 8/2020, p23.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change¹⁰ = Number of foster families of children in foster care to receive services × intensive parent child interventions cost per family

102. Community Resiliency Coalition Space

Market Comparisons

for Commercial Office

Space In YNG MSA &

CLE MSA

Trumbull Cnty

Comparable Property 1

311 Niles Courtland Road

1,500 square feet
 \$10 per square feet
 \$15,000 per year
 \$1,250.00 per month

Comparable Property 2

3637 State Road 5

1,500 square feet
 \$8 per square feet
 \$12,000 per year
 \$1,000.00 per month

Comparable Property 3

5015 Mahoning Ave1 W Federal Plaza

560 square feet
 \$9 per square feet
 \$5,040 per year
 \$420.00 per month

Comparable Property 4

6715 Tippecanoe Rd

1,503 square feet
 \$12 per square feet
 \$18,036 per year
 \$1,503.00 per month

YNG

Total Square Feet: 5,063

Total Annual Rent: \$50,076

Average Rent Per Square Foot: \$9.89

Suggested Space for 50 People: 1,000 square feet from Alexander

Average Annual Rent: \$11,117.31

Year	Rent	Growth	Rent	Year
2020	\$11,117.31	2.65%	\$11,411.92	2021
2021	\$11,411.92	2.65%	\$11,714.34	2022
2022	\$11,714.34	2.65%	\$12,024.77	2023
2023	\$12,024.77	2.65%	\$12,343.42	2024
2024	\$12,343.42	2.65%	\$12,670.52	2025
2025	\$12,670.52	2.65%	\$13,006.29	2026
2026	\$13,006.29	2.65%	\$13,350.96	2027
2027	\$13,350.96	2.65%	\$13,704.76	2028
2028	\$13,704.76	2.65%	\$14,067.94	2029
2029	\$14,067.94	2.65%	\$14,440.74	2030
2030	\$14,440.74	2.65%	\$14,823.42	2031
2031	\$14,823.42	2.65%	\$15,216.24	2032
2032	\$15,216.24	2.65%	\$15,619.47	2033
2033	\$15,619.47	2.65%	\$16,033.38	2034
2034	\$16,033.38	2.65%	\$16,458.27	2035
2035	\$16,458.27	2.65%		

Trumbull Average Annual Rent: \$11,117.31

Source: www.CityFeet.com

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Schedule: 1D. Showing Community Prevention and Resiliency

1D2. Community Resiliency Coalition Space

Year	Number of Community Spaces ¹	Community Space / Office Rent for 50 People + 3 Offices (1,000 ft ²) ¹⁰	Annual Growth rate ⁵	Total Cost ¹²	Present Value
2021	1.0	\$11,412		\$11,412	\$11,412
2022	1.0	\$11,714	2.65%	\$11,714	\$11,676
2023	1.0	\$12,025	2.65%	\$12,025	\$11,946
2024	1.0	\$12,343	2.65%	\$12,343	\$12,222
2025	1.0	\$12,671	2.65%	\$12,671	\$12,505
2026	1.0	\$13,006	2.65%	\$13,006	\$12,145
2027	1.0	\$13,351	2.65%	\$13,351	\$12,297
2028	1.0	\$13,705	2.65%	\$13,705	\$12,451
2029	1.0	\$14,068	2.65%	\$14,068	\$12,607
2030	1.0	\$14,441	2.65%	\$14,441	\$12,765
2031	1.0	\$14,823	2.65%	\$14,823	\$11,739
2032	1.0	\$15,216	2.65%	\$15,216	\$11,773
2033	1.0	\$15,619	2.65%	\$15,619	\$11,806
2034	1.0	\$16,033	2.65%	\$16,033	\$11,839
2035	1.0	\$16,458	2.65%	\$16,458	\$11,873
Total				\$206,886	\$181,055

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index(All Items), 1990-2019 Annual Average Percent Change. May 2019 (Social and Community Service Managers SOC: 11-9151)¹⁰ Local real estate rental property survey www.cityfeet.com.

Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

¹² = Number of community spaces × community space office rent

4C2c. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Intensive Parent-Child Interventions Cost Per Child: \$2,275.00

CPI Other Med Prof Svcs				
Year	Cost	Growth	Cost	Year
2020	\$2,275.00	1.28%	\$2,304.05	2021
2021	\$2,304.05	1.28%	\$2,333.47	2022
2022	\$2,333.47	1.28%	\$2,363.27	2023
2023	\$2,363.27	1.28%	\$2,393.45	2024
2024	\$2,393.45	1.28%	\$2,424.02	2025
2025	\$2,424.02	1.28%	\$2,454.97	2026
2026	\$2,454.97	1.28%	\$2,486.32	2027
2027	\$2,486.32	1.28%	\$2,518.07	2028
2028	\$2,518.07	1.28%	\$2,550.23	2029
2029	\$2,550.23	1.28%	\$2,582.79	2030
2030	\$2,582.79	1.28%	\$2,615.78	2031
2031	\$2,615.78	1.28%	\$2,649.18	2032
2032	\$2,649.18	1.28%	\$2,683.01	2033
2033	\$2,683.01	1.28%	\$2,717.27	2034
2034	\$2,717.27	1.28%	\$2,751.97	2035
2035	\$2,751.97	1.28%		

Source: Nancy Young 8/2020 p 23

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Schedule: 4C. Families and Children

4C3a. Support for Adopted Children and Families (Adoption Cost Per Child)

Year	Number of children adopted due to parental opioid use ¹		Adoption cost per child ²	Annual cost growth rate ¹¹	Total Cost ¹²	Present Value
2021	5		\$3,772		\$18,156	\$18,156
2022	5		\$3,868	2.55%	\$17,782	\$17,723
2023	4		\$3,966	2.55%	\$17,416	\$17,302
2024	4		\$4,067	2.55%	\$17,057	\$16,890
2025	4		\$4,170	2.55%	\$16,706	\$16,488
2026	4		\$4,277	2.55%	\$16,363	\$15,279
2027	4		\$4,385	2.55%	\$16,026	\$14,761
2028	3		\$4,497	2.55%	\$15,696	\$14,260
2029	3		\$4,611	2.55%	\$15,373	\$13,776
2030	3		\$4,729	2.55%	\$15,056	\$13,309
2031	3		\$4,849	2.55%	\$14,747	\$11,679
2032	3		\$4,973	2.55%	\$14,443	\$11,174
2033	3		\$5,099	2.55%	\$14,146	\$10,692
2034	3		\$5,229	2.55%	\$13,855	\$10,231
2035	3		\$5,362	2.55%	\$13,569	\$9,789
					\$236,390	\$211,507

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Adoption USA, 2007 Survey of Adoptive Parents, US Department of Health and Human Services.

Adoption costs are based on adoptions from foster care which cost substantially less than the average overall adoption cost.

¹¹ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Legal Services. 2009-2019 Annual Average Percent Change¹² = Number of children adopted due to parental opioid use x adoption cost per child

1D1b. Community Resiliency Coalition Staffing: Community Organizers

Community Resiliency Coalition Staffing: Community Organizer

Median Annual Community Organizer Salary

Median Annual Wage of Child, Family and School Social Workers (SOC 21-1021)

CLE MSA & YNG MSA, May 2019.

	CLE	YNG
Median Hourly Wage:	\$22.65	\$ 18.81
Annual Hours:	2,080	2080
Median Annual Wage:	\$47,112.00	\$39,124.80

Year	Wage	Growth	Wage	Year
2019	\$39,124.80	2.68%	\$40,172.79	2020
2020	\$40,172.79	2.28%	\$41,086.72	2021
2021	\$41,086.72	2.28%	\$42,021.44	2022
2022	\$42,021.44	2.28%	\$42,977.43	2023
2023	\$42,977.43	2.28%	\$43,955.16	2024
2024	\$43,955.16	2.28%	\$44,955.14	2025
2025	\$44,955.14	2.28%	\$45,977.87	2026
2026	\$45,977.87	2.28%	\$47,023.87	2027
2027	\$47,023.87	2.28%	\$48,093.66	2028
2028	\$48,093.66	2.28%	\$49,187.79	2029
2029	\$49,187.79	2.28%	\$50,306.82	2030
2030	\$50,306.82	2.28%	\$51,451.30	2031
2031	\$51,451.30	2.28%	\$52,621.81	2032
2032	\$52,621.81	2.28%	\$53,818.96	2033
2033	\$53,818.96	2.28%	\$55,043.34	2034
2034	\$55,043.34	2.28%	\$56,295.58	2035
2035	\$56,295.58	2.28%		

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 1D. Showing Community Prevention and Resiliency

1D1b. Community Resiliency Coalition Staffing: Community Organizers

Year	Number of Community Organizers ¹	Median annual community organizer salary ⁷	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁸	Annual Growth rate ⁵	Total Cost ⁹	Present Value
2021	1.2	\$41,087	26.74%	\$52,073		\$61,011	\$61,011
2022	1.2	\$42,021	26.74%	\$53,258	2.28%	\$62,399	\$62,194
2023	1.2	\$42,977	26.74%	\$54,470	2.28%	\$63,818	\$63,399
2024	1.2	\$43,955	26.74%	\$55,709	2.28%	\$65,270	\$64,628
2025	1.2	\$44,955	26.74%	\$56,976	2.28%	\$66,755	\$65,881
2026	1.2	\$45,978	26.74%	\$58,272	2.28%	\$68,274	\$63,752
2027	1.2	\$47,024	26.74%	\$59,598	2.28%	\$69,827	\$64,315
2028	1.2	\$48,094	26.74%	\$60,954	2.28%	\$71,416	\$64,883
2029	1.2	\$49,188	26.74%	\$62,341	2.28%	\$73,040	\$65,455
2030	1.2	\$50,307	26.74%	\$63,759	2.28%	\$74,702	\$66,033
2031	1.2	\$51,451	26.74%	\$65,209	2.28%	\$76,402	\$66,506
2032	1.2	\$52,622	26.74%	\$66,693	2.28%	\$78,140	\$66,456
2033	1.2	\$53,819	26.74%	\$68,210	2.28%	\$79,917	\$66,406
2034	1.2	\$55,043	26.74%	\$69,762	2.28%	\$81,736	\$66,356
2035	1.2	\$56,296	26.74%	\$71,349	2.28%	\$83,595	\$66,305
Total						\$1,076,302	\$949,580

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Area. May 2019 (Social and Community Service Managers SOC: 11-9151)³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.⁸ Median annual community organizer salary + employer provided fringe benefit percentage of wages⁹ = Total number of community organizers × total annual compensation

4C3a. Support for Adopted Children and Families (Adoption Cost Per Child)

Adoption Cost Per Child

Year	Cost	CPI Legal Growth	Cost	Year
2020	\$3,677.99	2.55%	\$3,771.60	2021
2021	\$3,771.60	2.55%	\$3,867.58	2022
2022	\$3,867.58	2.55%	\$3,966.01	2023
2023	\$3,966.01	2.55%	\$4,066.95	2024
2024	\$4,066.95	2.55%	\$4,170.45	2025
2025	\$4,170.45	2.55%	\$4,276.59	2026
2026	\$4,276.59	2.55%	\$4,385.43	2027
2027	\$4,385.43	2.55%	\$4,497.04	2028
2028	\$4,497.04	2.55%	\$4,611.49	2029
2029	\$4,611.49	2.55%	\$4,728.85	2030
2030	\$4,728.85	2.55%	\$4,849.20	2031
2031	\$4,849.20	2.55%	\$4,972.61	2032
2032	\$4,972.61	2.55%	\$5,099.17	2033
2033	\$5,099.17	2.55%	\$5,228.94	2034
2034	\$5,228.94	2.55%	\$5,362.02	2035
2035	\$5,362.02	2.55%		

Source: Adoption USA, 2007 Survey of Adoptive Parents, US Department of Health and Human Services.

Adoption costs are based on adoptions from foster care which cost substantially less than the average overall adoption cost.

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Schedule: 4C. Families and Children

4C3b. Support for Adopted Children and Families (Socio-Emotional Support)

Year	Number of children adopted to receive socio-emotional support ¹	Socio-emotional support cost per child ²	Annual cost growth rate ³	Total Cost ¹³	Present Value
2021	3	\$4,168		\$10,833	\$10,833
2022	2	\$4,221	1.28%	\$10,479	\$10,445
2023	2	\$4,275	1.28%	\$10,136	\$10,070
2024	2	\$4,329	1.28%	\$9,805	\$9,709
2025	2	\$4,385	1.28%	\$9,485	\$9,360
2026	2	\$4,441	1.28%	\$9,174	\$8,567
2027	2	\$4,497	1.28%	\$8,875	\$8,174
2028	2	\$4,555	1.28%	\$8,584	\$7,799
2029	2	\$4,613	1.28%	\$8,304	\$7,441
2030	2	\$4,672	1.28%	\$8,032	\$7,100
2031	2	\$4,731	1.28%	\$7,770	\$6,153
2032	2	\$4,792	1.28%	\$7,516	\$5,815
2033	1	\$4,853	1.28%	\$7,270	\$5,495
2034	1	\$4,915	1.28%	\$7,032	\$5,193
2035	1	\$4,978	1.28%	\$6,802	\$4,907
				\$130,098	\$117,061

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Nancy Young Report, 8/2020, p12.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change¹³ = Number of children adopted to receive socioemotional support x socioemotional support cost per child

1D1a. Community Resiliency Coalition Staffing: Director

Community Resiliency Coalition Staffing: Director

Median Annual Director Salary

Median Annual Wage of Social and Community Service Managers (SOC 11-9151)

CLE MSA & YNG MSA, May 2019.

Median Hourly Wage: \$31.88

Annual Hours: 2,080

Median Annual Wage: \$66,310.40

Year	Wage	Growth	Wage	Year
2019	\$66,310.40	2.68%	\$68,086.57	2020
2020	\$68,086.57	2.28%	\$69,635.54	2021
2021	\$69,635.54	2.28%	\$71,219.75	2022
2022	\$71,219.75	2.28%	\$72,840.00	2023
2023	\$72,840.00	2.28%	\$74,497.11	2024
2024	\$74,497.11	2.28%	\$76,191.92	2025
2025	\$76,191.92	2.28%	\$77,925.28	2026
2026	\$77,925.28	2.28%	\$79,698.08	2027
2027	\$79,698.08	2.28%	\$81,511.22	2028
2028	\$81,511.22	2.28%	\$83,365.60	2029
2029	\$83,365.60	2.28%	\$85,262.16	2030
2030	\$85,262.16	2.28%	\$87,201.88	2031
2031	\$87,201.88	2.28%	\$89,185.72	2032
2032	\$89,185.72	2.28%	\$91,214.70	2033
2033	\$91,214.70	2.28%	\$93,289.83	2034
2034	\$93,289.83	2.28%	\$95,412.17	2035
2035	\$95,412.17	2.28%		

Source: Occupational Employment Statistics (OES) Survey

Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

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Schedule: 1D. Showing Community Prevention and Resiliency
1D1a. Community Resiliency Coalition Staffing: Director

Year	Number of Directors ¹	Median annual director salary ²	Employer paid Fringe Benefits (percent of wages) ³	Total Compensation ⁴	Annual Growth rate ⁵	Total Cost ⁶	Present Value
2021	0.4	\$69,636	26.74%	\$88,256		\$34,468	\$34,468
2022	0.4	\$71,220	26.74%	\$90,264	2.28%	\$35,252	\$35,136
2023	0.4	\$72,840	26.74%	\$92,317	2.28%	\$36,054	\$35,817
2024	0.4	\$74,497	26.74%	\$94,418	2.28%	\$36,874	\$36,512
2025	0.4	\$76,192	26.74%	\$96,566	2.28%	\$37,713	\$37,219
2026	0.4	\$77,925	26.74%	\$98,763	2.28%	\$38,571	\$36,017
2027	0.4	\$79,698	26.74%	\$101,009	2.28%	\$39,449	\$36,334
2028	0.4	\$81,511	26.74%	\$103,307	2.28%	\$40,346	\$36,655
2029	0.4	\$83,366	26.74%	\$105,658	2.28%	\$41,264	\$36,979
2030	0.4	\$85,262	26.74%	\$108,061	2.28%	\$42,203	\$37,305
2031	0.4	\$87,202	26.74%	\$110,520	2.28%	\$43,163	\$34,183
2032	0.4	\$89,186	26.74%	\$113,034	2.28%	\$44,145	\$34,154
2033	0.4	\$91,215	26.74%	\$115,606	2.28%	\$45,149	\$34,126
2034	0.4	\$93,290	26.74%	\$118,236	2.28%	\$46,176	\$34,098
2035	0.4	\$95,412	26.74%	\$120,925	2.28%	\$47,227	\$34,069
Total						\$608,055	\$533,073

Notes and Sources:

- ¹ Caleb Alexander, M.D., M.S. Report, see Appendix D
- ² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: CLE & YNG Metropolitan Statistical Area. May 2019 (Social and Community Service Managers SOC: 11-9151)
- ³ Employer Cost per Hour Worked for Employee Compensation and Costs, as Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019 economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.
- ⁴ Median annual director salary + employer provided fringe benefit percentage of wages
- ⁵ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index(All Items), 1990-2019 Annual Average Percent Change
- ⁶ = Total number of directors × total annual compensation

4C3b. Support for Adopted Children and Families (Socio-Emotional Support)

Socio-Emotional Support Per Child: \$4,115.00

CPI				Other			
Med Prof				Svcs			
Year	Cost	Growth	Cost	Year	Cost	Growth	Cost
2020	\$4,115.00	1.28%	\$4,167.55	2021	\$4,167.55	1.28%	\$4,220.77
2021	\$4,167.55	1.28%	\$4,220.77	2022	\$4,220.77	1.28%	\$4,274.67
2022	\$4,220.77	1.28%	\$4,274.67	2023	\$4,274.67	1.28%	\$4,329.25
2023	\$4,274.67	1.28%	\$4,329.25	2024	\$4,329.25	1.28%	\$4,384.54
2024	\$4,329.25	1.28%	\$4,384.54	2025	\$4,384.54	1.28%	\$4,440.53
2025	\$4,384.54	1.28%	\$4,440.53	2026	\$4,440.53	1.28%	\$4,497.24
2026	\$4,440.53	1.28%	\$4,497.24	2027	\$4,497.24	1.28%	\$4,554.67
2027	\$4,497.24	1.28%	\$4,554.67	2028	\$4,554.67	1.28%	\$4,612.83
2028	\$4,554.67	1.28%	\$4,612.83	2029	\$4,612.83	1.28%	\$4,671.73
2029	\$4,612.83	1.28%	\$4,671.73	2030	\$4,671.73	1.28%	\$4,731.39
2030	\$4,671.73	1.28%	\$4,731.39	2031	\$4,731.39	1.28%	\$4,791.81
2031	\$4,731.39	1.28%	\$4,791.81	2032	\$4,791.81	1.28%	\$4,853.00
2032	\$4,791.81	1.28%	\$4,853.00	2033	\$4,853.00	1.28%	\$4,914.98
2033	\$4,853.00	1.28%	\$4,914.98	2034	\$4,914.98	1.28%	\$4,977.74
2034	\$4,914.98	1.28%	\$4,977.74	2035	\$4,977.74	1.28%	

Source: Nancy Young 8/2020 p12

Schedule: 4C. Families and Children

4C3c. Support for Adopted Children and Families (Intensive Parent-Child interventions)

Year	Number of adoptive families to receive intensive parent-child interventions ¹	Intensive parent-child interventions cost per child ²	Annual cost growth rate ³	Total Cost ¹⁴	Present Value
2021	1	\$2,304		\$2,214	\$2,214
2022	1	\$2,333	1.28%	\$2,141	\$2,134
2023	1	\$2,363	1.28%	\$2,071	\$2,058
2024	1	\$2,393	1.28%	\$2,004	\$1,984
2025	1	\$2,424	1.28%	\$1,938	\$1,913
2026	1	\$2,455	1.28%	\$1,875	\$1,750
2027	1	\$2,486	1.28%	\$1,813	\$1,670
2028	1	\$2,518	1.28%	\$1,754	\$1,594
2029	1	\$2,550	1.28%	\$1,697	\$1,521
2030	1	\$2,583	1.28%	\$1,641	\$1,451
2031	1	\$2,616	1.28%	\$1,588	\$1,257
2032	1	\$2,649	1.28%	\$1,536	\$1,188
2033	1	\$2,683	1.28%	\$1,486	\$1,123
2034	1	\$2,717	1.28%	\$1,437	\$1,061
2035	1	\$2,752	1.28%	\$1,390	\$1,003
				\$26,583	\$23,920

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² Nancy Young Report, 8/2020, p21.³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Services by Other Medical Professionals. 2009-2019 Annual Average Percent Change⁴ Number of adoptive families to receive intensive parent-child interventions x Intensive parent-child interventions cost per childSchedule 1C: Safe Storage and Drug Disposal
Drug Take-Back Collection Programs

Suggested Cost Source #1: King County, Washington (2011)

Operating Cost Per Year: \$532,275
County Population: 1,974,200
Cost Per Capita: \$0.27

Year	Cost	Growth	Cost	Year
2011	\$0.269616	2.07%	\$0.28	2012
2012	\$0.28	1.46%	\$0.28	2013
2013	\$0.28	1.62%	\$0.28	2014
2014	\$0.28	0.12%	\$0.28	2015
2015	\$0.28	1.26%	\$0.29	2016
2016	\$0.29	2.13%	\$0.29	2017
2017	\$0.29	2.44%	\$0.30	2018
2018	\$0.30	1.81%	\$0.31	2019
2019	\$0.31			

Suggested Cost Source #2: Alameda County, California (2015)

Operating Cost Per Year: \$330,000
County Population: 1,634,538
Cost Per Capita: \$0.20

Year	Cost	Growth	Cost	Year
2015	\$0.20	1.26%	\$0.20	2016
2016	\$0.20	2.13%	\$0.21	2017
2017	\$0.21	2.44%	\$0.21	2018
2018	\$0.21	1.81%	\$0.22	2019
2019	\$0.22			

Average of 2 suggested cost sources in 2019 dollars

King County, WA: \$0.31
Alameda County, CA: \$0.22
Average: \$0.26

Year	Cost	Growth	Cost	Year
2019	\$0.26	1.76%	\$0.27	2020
2020	\$0.27	1.76%	\$0.27	2021
2021	\$0.27	1.76%	\$0.28	2022
2022	\$0.28	1.76%	\$0.28	2023
2023	\$0.28	1.76%	\$0.29	2024
2024	\$0.29	1.76%	\$0.29	2025
2025	\$0.29	1.76%	\$0.30	2026
2026	\$0.30	1.76%	\$0.30	2027
2027	\$0.30	1.76%	\$0.31	2028
2028	\$0.31	1.76%	\$0.31	2029
2029	\$0.31	1.76%	\$0.32	2030
2030	\$0.32	1.76%	\$0.32	2031
2031	\$0.32	1.76%	\$0.33	2032
2032	\$0.33	1.76%	\$0.33	2033
2033	\$0.33	1.76%	\$0.34	2034
2034	\$0.34	1.76%	\$0.35	2035
2035	\$0.35			

Source: Alexander

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Sched 1C. Safe Storage and Drug Disposal

Year	Total county population ¹	Opioids Related Collections ¹	Proportion of Medications Collected that are Opioids ¹	Cost per capita per year ¹	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	195,273	10.0%	19,527	\$0.27		\$5,299	\$5,299
2022	195,273	9.5%	18,590	\$0.28	1.76%	\$5,133	\$5,116
2023	195,273	9.1%	17,698	\$0.28	1.76%	\$4,972	\$4,940
2024	195,273	8.6%	16,848	\$0.29	1.76%	\$4,817	\$4,769
2025	195,273	8.2%	16,039	\$0.29	1.76%	\$4,666	\$4,605
2026	195,273	7.8%	15,270	\$0.30	1.76%	\$4,520	\$4,221
2027	195,273	7.4%	14,537	\$0.30	1.76%	\$4,379	\$4,033
2028	195,273	7.1%	13,839	\$0.31	1.76%	\$4,242	\$3,854
2029	195,273	6.7%	13,175	\$0.31	1.76%	\$4,109	\$3,682
2030	195,273	6.4%	12,542	\$0.32	1.76%	\$3,980	\$3,518
2031	195,273	6.1%	11,940	\$0.32	1.76%	\$3,856	\$3,054
2032	195,273	5.8%	11,367	\$0.33	1.76%	\$3,735	\$2,890
2033	195,273	5.5%	10,821	\$0.33	1.76%	\$3,618	\$2,735
2034	195,273	5.3%	10,302	\$0.34	1.76%	\$3,505	\$2,588
2035	195,273	5.0%	9,808	\$0.35	1.76%	\$3,395	\$2,449
Total						\$64,226	\$57,753

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index (All Items), 2009-2019 1.76% Annual Average Change.³ = Proportion of medications collected that are opioids x cost per capita per year

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4C3c. Support for Adopted Children and Families (Intensive Parent-Child Interventions)

Intensive Parent-Child Interventions Cost Per Child: \$2,275.00

CPI
Other
Med Prof
Svcs

Year	Cost	Growth	Cost	Year
2020	\$2,275.00	1.28%	\$2,304.05	2021
2021	\$2,304.05	1.28%	\$2,333.47	2022
2022	\$2,333.47	1.28%	\$2,363.27	2023
2023	\$2,363.27	1.28%	\$2,393.45	2024
2024	\$2,393.45	1.28%	\$2,424.02	2025
2025	\$2,424.02	1.28%	\$2,454.97	2026
2026	\$2,454.97	1.28%	\$2,486.32	2027
2027	\$2,486.32	1.28%	\$2,518.07	2028
2028	\$2,518.07	1.28%	\$2,550.23	2029
2029	\$2,550.23	1.28%	\$2,582.79	2030
2030	\$2,582.79	1.28%	\$2,615.78	2031
2031	\$2,615.78	1.28%	\$2,649.18	2032
2032	\$2,649.18	1.28%	\$2,683.01	2033
2033	\$2,683.01	1.28%	\$2,717.27	2034
2034	\$2,717.27	1.28%	\$2,751.97	2035
2035	\$2,751.97	1.28%		

Source: Nancy Young 8/2020 p 21

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Schedule: amilies and Children
 AC2d. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Year	Foster families of children in foster care to receive family treatment courts ¹	Family treatment court cost per family ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	8	\$12,484		\$97,282	\$97,282
2022	7	\$12,801	2.55%	\$95,279	\$94,966
2023	7	\$13,127	2.55%	\$93,318	\$92,705
2024	7	\$13,461	2.55%	\$91,398	\$90,499
2025	6	\$13,804	2.55%	\$89,516	\$88,345
2026	6	\$14,155	2.55%	\$87,674	\$81,867
2027	6	\$14,515	2.55%	\$85,870	\$79,091
2028	6	\$14,885	2.55%	\$84,102	\$76,408
2029	5	\$15,264	2.55%	\$82,371	\$73,817
2030	5	\$15,652	2.55%	\$80,676	\$71,314
2031	5	\$16,050	2.55%	\$79,015	\$62,576
2032	5	\$16,459	2.55%	\$77,389	\$59,875
2033	4	\$16,878	2.55%	\$75,796	\$57,291
2034	4	\$17,307	2.55%	\$74,236	\$54,818
2035	4	\$17,748	2.55%	\$72,708	\$52,452
				\$1,266,631	\$1,139,305

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Nancy Young, Ph.D. Report, 8/2020, p.38.

³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Legal Services. 2009-2019 Annual Average Percent Change

⁴ = Number of foster families of children in foster care to receive family treatment courts × family treatment court cost per family

ScheduleB: Showing Patient and Public Education

Media Campaign Cost

Monument Analytics: 1B Public Education

		CPI			
		All Items			
Year	Cost	Growth	Cost	Year	
2015	\$0.38	0.70%	\$0.38	2016	
2016	\$0.38	2.10%	\$0.39	2017	
2017	\$0.39	2.10%	\$0.40	2018	
2018	\$0.40	1.90%	\$0.41	2019	
2019	\$0.41	2.30%	\$0.41	2020	
2020	\$0.41	1.76%	\$0.42	2021	
2021	\$0.42	1.76%	\$0.43	2022	
2022	\$0.43	1.76%	\$0.44	2023	
2023	\$0.44	1.76%	\$0.44	2024	
2024	\$0.44	1.76%	\$0.45	2025	
2025	\$0.45	1.76%	\$0.46	2026	
2026	\$0.46	1.76%	\$0.47	2027	
2027	\$0.47	1.76%	\$0.48	2028	
2028	\$0.48	1.76%	\$0.48	2029	
2029	\$0.48	1.76%	\$0.49	2030	
2030	\$0.49	1.76%	\$0.50	2031	
2031	\$0.50	1.76%	\$0.51	2032	
2032	\$0.51	1.76%	\$0.52	2033	
2033	\$0.52	1.76%	\$0.53	2034	
2034	\$0.53	1.76%	\$0.54	2035	
2035	\$0.54				

Source: Alexander

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Sched 1B. Showing Patient and Public Education

Year	Mass media coverage population ¹	Cost per capita of media campaign ¹	Annual cost growth rate ²	Total Estimated Cost ³	Present Value
2021	143,906	\$0.42		\$60,721	\$60,721
2022	142,697	\$0.43	1.76%	\$61,267	\$61,066
2023	141,487	\$0.44	1.76%	\$61,814	\$61,408
2024	140,278	\$0.44	1.76%	\$62,362	\$61,748
2025	139,069	\$0.45	1.76%	\$62,909	\$62,085
2026	137,860	\$0.46	1.76%	\$63,456	\$59,254
2027	136,650	\$0.47	1.76%	\$64,004	\$58,951
2028	135,441	\$0.48	1.76%	\$64,551	\$58,645
2029	134,232	\$0.48	1.76%	\$65,097	\$58,337
2030	133,022	\$0.49	1.76%	\$65,643	\$58,025
2031	131,813	\$0.50	1.76%	\$66,188	\$52,417
2032	130,604	\$0.51	1.76%	\$66,731	\$51,629
2033	129,395	\$0.52	1.76%	\$67,274	\$50,849
2034	128,185	\$0.53	1.76%	\$67,815	\$50,076
2035	126,976	\$0.54	1.76%	\$68,354	\$49,310
				<u>\$968,185</u>	<u>\$854,523</u>

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D² U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index All Items, 1990-2019 1.76% Annual Average Change.³ = Mass media coverage population × cost per capita of media campaign

4C2d. Intensive Parent-Child Interventions & Family Treatment Court for Foster Families

Foster Care Family Court Costs Per Family

Family Drug Court Cost \$10,500.00 in 2014 dollars

Year	Cost	CPI-Legal		Wage	Year
		Growth			
2014	\$10,500.00	1.44%	\$10,650.78		2015
2015	\$10,650.78	2.86%	\$10,955.82		2016
2016	\$10,955.82	4.10%	\$11,404.57		2017
2017	\$11,404.57	1.32%	\$11,555.34		2018
2018	\$11,555.34	6.36%	\$12,290.60		2019
2019	\$12,290.60	-0.95%	\$12,173.84		2020
2020	\$12,173.84	2.55%	<u>\$12,483.67</u>		<u>2021</u>
2021	\$12,483.67	2.55%	<u>\$12,801.38</u>		<u>2022</u>
2022	\$12,801.38	2.55%	<u>\$13,127.17</u>		<u>2023</u>
2023	\$13,127.17	2.55%	<u>\$13,461.26</u>		<u>2024</u>
2024	\$13,461.26	2.55%	<u>\$13,803.85</u>		<u>2025</u>
2025	\$13,803.85	2.55%	<u>\$14,155.15</u>		<u>2026</u>
2026	\$14,155.15	2.55%	<u>\$14,515.40</u>		<u>2027</u>
2027	\$14,515.40	2.55%	<u>\$14,884.82</u>		<u>2028</u>
2028	\$14,884.82	2.55%	<u>\$15,263.64</u>		<u>2029</u>
2029	\$15,263.64	2.55%	<u>\$15,652.10</u>		<u>2030</u>
2030	\$15,652.10	2.55%	<u>\$16,050.44</u>		<u>2031</u>
2031	\$16,050.44	2.55%	<u>\$16,458.93</u>		<u>2032</u>
2032	\$16,458.93	2.55%	<u>\$16,877.81</u>		<u>2033</u>
2033	\$16,877.81	2.55%	<u>\$17,307.35</u>		<u>2034</u>
2034	\$17,307.35	2.55%	<u>\$17,747.82</u>		<u>2035</u>
2035	\$17,747.82	2.55%			

Source: Nancy Young, see P. 38

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Schedule: 4D. Homeless and Housing Insecure Individuals
AD1. Permanent Supportive Housing

Year	Number of homeless individuals with OUD ¹	Cost per permanent supportive housing per person ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	16	\$20,752		\$329,947	\$329,947
2022	15	\$21,302	2.65%	\$323,486	\$322,422
2023	15	\$21,866	2.65%	\$317,153	\$315,070
2024	14	\$22,446	2.65%	\$310,943	\$307,885
2025	13	\$23,040	2.65%	\$304,855	\$300,864
2026	13	\$23,651	2.65%	\$298,886	\$279,090
2027	12	\$24,278	2.65%	\$293,034	\$269,901
2028	12	\$24,921	2.65%	\$287,297	\$261,015
2029	11	\$25,581	2.65%	\$281,672	\$252,421
2030	11	\$26,259	2.65%	\$276,157	\$244,110
2031	10	\$26,955	2.65%	\$270,750	\$214,420
2032	10	\$27,670	2.65%	\$265,449	\$205,375
2033	9	\$28,403	2.65%	\$260,252	\$196,712
2034	9	\$29,155	2.65%	\$255,156	\$188,414
2035	8	\$29,928	2.65%	\$250,160	\$180,466
				\$4,325,199	\$3,868,112

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² Culhane, Metraux et al, Costs associated with Family Homelessness

In Columbus Ohio, Housing Policy Debate, Volume 18, Issue 1, May 2007

³ U.S. Department of Labor, Bureau of Labor Statistics. Consumer Price Index, All Urban Consumers (CPI-U), U.S. City Average -- Rent of Shelter. 1990-2019 Annual Average Percent Change

⁴ = Number of permanent supportive housing for homeless individuals with OUD

* cost per permanent supportive housing per person

1A2. Showing Health Professional Education Total Costs and Present Value 2021-2035

For Continuing Healthcare Provider Education

SOC	Title	Employed	Percent	Wage	Weighted	YNG
29-1081	Podiatrists	90	0.70%	\$62.13	\$0.44	Epees wage
29-1211	Anesthesiologists	320	2.49%	\$132.66	\$3.31	None for YNG
29-1215	Family Medicine Physicians	920	7.17%	\$30.81	\$2.21	None for YNG
29-1216	General Internal Medicine Physicians	390	3.04%	\$82.93	\$2.52	\$122.24 mean
29-1218	Obstetricians and Gynecologists		0.00%	n/a		none yng
29-1221	Pediatricians, General	640	4.98%	\$86.97	\$4.33	none yng
29-1223	Psychiatrists	110	0.86%	\$72.98	\$0.63	\$86.46 no employment %'s
29-1228	Physicians, All Other; and Ophthalmologists, Except Pediatric	5,640	43.93%	\$71.13	\$3.88	\$77.13 670
29-1248	Surgeons, Except Ophthalmologists	390	3.04%	\$132.63	\$4.03	no yng
29-1021	Dentists	900	7.01%	\$95.61	\$6.70	\$64.05 140
29-1171	Nurse Practitioners	1,500	11.68%	\$49.86	\$5.82	\$44.63 250
29-1071	Physician Assistants	1,940	15.11%	\$53.40	\$8.07	\$46.48 180
		12,840	100.00%	\$877.11	\$71.93	

Median Hourly Wage:

\$71.93

use for both counties

Year	Wage	Growth	Year	Wage
2019	\$71.93	4.57%	2020	\$75.22
2020	\$75.22	2.99%	2021	\$77.47
2021	\$77.47	2.99%	2022	\$79.79
2022	\$79.79	2.99%	2023	\$82.18
2023	\$82.18	2.99%	2024	\$84.64
2024	\$84.64	2.99%	2025	\$87.17
2025	\$87.17	2.99%	2026	\$89.78
2026	\$89.78	2.99%	2027	\$92.47
2027	\$92.47	2.99%	2028	\$95.23
2028	\$95.23	2.99%	2029	\$98.08
2029	\$98.08	2.99%	2030	\$101.02
2030	\$101.02	2.99%	2031	\$104.04
2031	\$104.04	2.99%	2032	\$107.16
2032	\$107.16	2.99%	2033	\$110.36
2033	\$110.36	2.99%	2034	\$113.67
2034	\$113.67	2.99%	2035	\$117.07
2035	\$117.07			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_d1.xlsx

Schedule: 1A2. Showing Health Professional Education Total Costs and Present Value 2021-2035
For Continuing Healthcare Provider Education

Year	Total continuing education hours ¹	Weighted average median hourly wage for health care providers ²	Annual cost growth rate ³	Total Cost ⁴	Present Value
2021	1,872	\$77.47		\$145,018	\$145,018
2022	943	\$79.79	2.99%	\$75,242	\$74,995
2023	950	\$82.18	2.99%	\$78,078	\$77,566
2024	957	\$84.64	2.99%	\$81,022	\$80,225
2025	965	\$87.17	2.99%	\$84,076	\$82,975
2026	972	\$89.78	2.99%	\$87,245	\$81,467
2027	979	\$92.47	2.99%	\$90,534	\$83,387
2028	986	\$95.23	2.99%	\$93,947	\$85,353
2029	994	\$98.08	2.99%	\$97,488	\$87,364
2030	1,001	\$101.02	2.99%	\$101,163	\$89,424
2031	1,009	\$104.04	2.99%	\$104,977	\$91,136
2032	1,017	\$107.16	2.99%	\$108,934	\$92,881
2033	1,024	\$110.36	2.99%	\$113,041	\$94,442
2034	1,032	\$113.67	2.99%	\$117,302	\$96,619
2035	1,040	\$117.07	2.99%	\$121,724	\$98,811
Total				\$1,499,791	\$1,315,062

Notes and Sources:

¹ Caleb Alexander, M.D., M.S. Report, see Appendix D

² U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: Cleveland MSA & Youngstown MSA Bureau of Labor Statistics, May 2019.
Including physicians, dentists, nurse practitioners, physician assistants, etc.

³ U.S. Department of Labor, Bureau of Labor Statistics. CPI for Medical Care 2009-2019, 2.99% Annual Average Change.

⁴ = Total continuing education hours x weighted average median hourly wage

4D1. Permanent Supportive Housing

Permanent Supportive Housing

Monthly Cost: \$1,430.67 in 2016 dollars
x 12 months = \$17,168.00

Year	Cost	Rent Growth	Wage	Year
2015	\$17,168.00	3.23%	\$17,722.53	2016
2016	\$17,722.53	3.66%	\$18,370.46	2017
2017	\$18,370.46	3.23%	\$18,963.83	2018
2018	\$18,963.83	3.22%	\$19,573.76	2019
2019	\$19,573.76	3.28%	\$20,215.99	2020
2020	\$20,215.99	2.65%	\$20,751.72	2021
2021	\$20,751.72	2.65%	\$21,301.64	2022
2022	\$21,301.64	2.65%	\$21,866.13	2023
2023	\$21,866.13	2.65%	\$22,445.58	2024
2024	\$22,445.58	2.65%	\$23,040.39	2025
2025	\$23,040.39	2.65%	\$23,650.96	2026
2026	\$23,650.96	2.65%	\$24,277.71	2027
2027	\$24,277.71	2.65%	\$24,921.07	2028
2028	\$24,921.07	2.65%	\$25,581.48	2029
2029	\$25,581.48	2.65%	\$26,259.39	2030
2030	\$26,259.39	2.65%	\$26,955.26	2031
2031	\$26,955.26	2.65%	\$27,669.58	2032
2032	\$27,669.58	2.65%	\$28,402.82	2033
2033	\$28,402.82	2.65%	\$29,155.49	2034
2034	\$29,155.49	2.65%	\$29,928.11	2035
2035	\$29,928.11	2.65%		

Source: Culhane, Metraux et al, Costs associated with Family Homelessness in Columbus Ohio, Housing Policy Debate, Volume 18, Issue 1, May 2007

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Exhibits 1-1 to 1-4

1A1. Showing Health Professional Education Total Costs and Present Value 2021-2035
For Academic Detailing
Median Annual Wage of Pharmacists (SOC 29-1051)
CLE-Youngstown MSA 2019

Median Hourly Wage:	\$61.91	2019	
Annual Hours:	2,080		
Median Annual Wage:	\$115,170.00	CLE	\$ 126,150 Trumbull \$115,170

Year	Wage	Growth	Wage	Year
2019	\$115,170.00	4.57%	\$120,434.42	2020
2020	\$120,434.42	2.99%	\$124,039.02	2021
2021	\$124,039.02	2.99%	\$127,751.51	2022
2022	\$127,751.51	2.99%	\$131,575.11	2023
2023	\$131,575.11	2.99%	\$135,513.16	2024
2024	\$135,513.16	2.99%	\$139,569.07	2025
2025	\$139,569.07	2.99%	\$143,746.37	2026
2026	\$143,746.37	2.99%	\$148,048.70	2027
2027	\$148,048.70	2.99%	\$152,479.79	2028
2028	\$152,479.79	2.99%	\$157,043.51	2029
2029	\$157,043.51	2.99%	\$161,743.83	2030
2030	\$161,743.83	2.99%	\$166,584.82	2031
2031	\$166,584.82	2.99%	\$171,570.70	2032
2032	\$171,570.70	2.99%	\$176,705.81	2033
2033	\$176,705.81	2.99%	\$181,994.62	2034
2034	\$181,994.62	2.99%	\$187,441.72	2035
2035	\$187,441.72			

Source: Occupational Employment Statistics (OES) Survey
Bureau of Labor Statistics, May 2019 Estimates, File: MSA_dl.xlsx

Schedule: 1A1. Showing Health Professional Education Total Costs and Present Value 2021-2035
For Academic Detailing

	Median annual wage of pharmacists (SOC 29-1051) 2,5	Fringe Benefits % of wages 3	Total annual Compensation 4	Number of detailers required for prescribing population 5	Total Cost 6	Present Value
2021	\$124,039	\$ 33,168	\$157,207	0.2	\$24,523	\$24,523
2022	\$127,752	\$ 34,161	\$161,912	0.2	\$24,539	\$24,458
2023	\$131,575	\$ 35,183	\$166,758	0.1	\$24,521	\$24,360
2024	\$135,513	\$ 36,236	\$171,749	0.1	\$24,466	\$24,226
2025	\$139,569	\$ 37,321	\$176,890	0.1	\$24,373	\$24,054
2026	\$143,746	\$ 38,438	\$182,184	0.1	\$24,238	\$22,633
2027	\$148,049	\$ 39,588	\$187,637	0.1	\$24,058	\$22,159
2028	\$152,480	\$ 40,773	\$193,253	0.1	\$23,830	\$21,650
2029	\$157,044	\$ 41,993	\$199,037	0.1	\$23,551	\$21,105
2030	\$161,744	\$ 43,250	\$204,994	0.1	\$23,217	\$20,523
2031	\$166,585	\$ 44,545	\$211,130	0.1	\$22,824	\$18,076
2032	\$171,571	\$ 45,878	\$217,449	0.1	\$22,369	\$17,306
2033	\$176,706	\$ 47,251	\$223,957	0.1	\$21,847	\$16,513
2034	\$181,995	\$ 48,665	\$230,660	0.1	\$21,253	\$15,694
2035	\$187,442	\$ 50,122	\$237,564	0.1	\$20,584	\$14,849
Total					\$350,193	\$312,129

Notes and Sources:

1 Caleb Alexander, M.D., M.S. Report, see Appendix D

2 U.S. Department of Labor, Bureau of Labor Statistics. Occupational Employment Statistics: Cleveland SMSA-Youngstown SMSA Metropolitan Statistical Area. May 2019.

3 Employer Cost per Hour Worked for Employee Compensation and Costs, as 26.74 Percent of Total Compensation: Civilian workers, by major occupational and industry group, 2002-2019

economic news releases, last modified June 19, 2020. U.S. Department of Labor, U.S. Bureau of Labor Statistics, March, 2020.

4 Median annual wage of pharmacists + employer provided fringe benefit percentage of wages

5 U.S. Department of Labor, Bureau of Labor Statistics. CPI for Medical Care 2009-2019, 2.99% Annual Average Change.

6 = Total number of detailers required for prescribing population x total annual compensation of pharmacists

Trumbull Exhibit 1-1

Category 1: Prevention –
Reducing Opioid Oversupply
and
Improving Safe Opioid Use

- 1A. Health Professional Education
- 1B. Patient and Public Education
- 1C. Safe Storage and Drug Disposal
- 1D. Community Prevention and Resiliency
- 1E. Harm Reduction
- 1F. Surveillance, Evaluation, and Leadership

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Exhibits 1-1 to 1-4

Trumbull Exhibit 1-1

Category 1: Prevention –
Reducing Opioid Oversupply
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- 1A. Health Professional Education
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